

Manufacturers Record

Exponent of America



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From Florida's New York Exposition the South Should Learn Many Lessons for Southern Exposition Next Year.

The exposition which Florida has just given in New York, though possibly somewhat inadequate to the real resources of the South, is merely a hint of the possibilities of the proposed Southern Exposition in New York next January to represent the resources and achievements of the entire South.

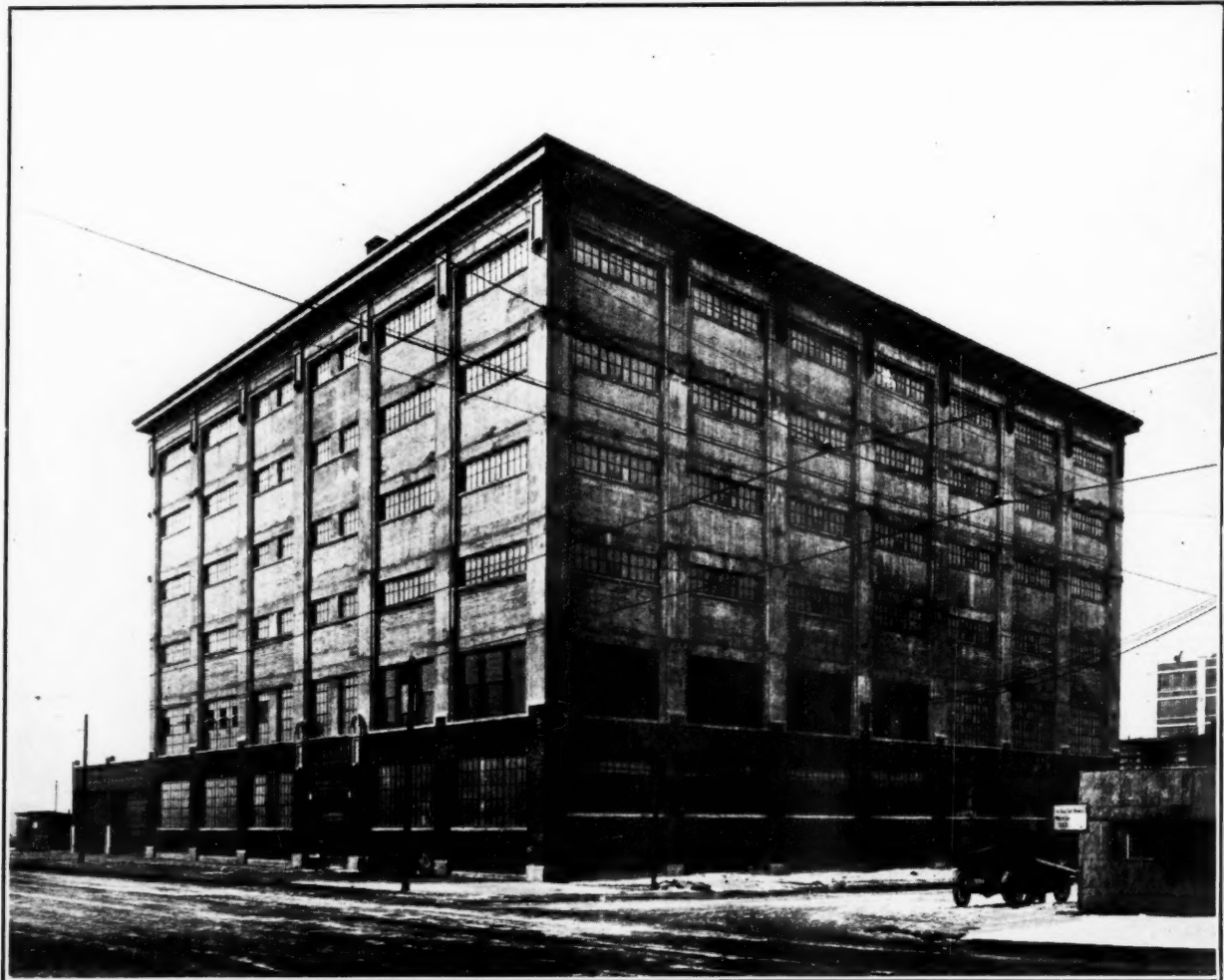
Multiply what Florida has done as one state by the sixteen Southern states, multiply this exposition by the awakened spirit of the whole South and by the time in which to get ready as compared with the brief time allotted to Florida, and we can gain some conception of what the Southern Exposition in New York next January should mean to the entire South.

Every state, every industry, every section of every state should be represented. The products of the South's iron and steel industry should be there, its chemical interests should be represented, its cotton mills should display their varied products and there should be models and moving pictures of the homes and villages of their operatives in order to exhibit to the people of the East what the South has achieved for the welfare of its employees.

The agricultural products of the South, preeminently its diversified products, its grains, its grasses, its fruits, its vegetables, should be displayed in the best manner and on the largest scale possible. Southern woods in the raw state and in the finished product of every variety of furniture should be in evidence. Southern minerals, the rare ones and the common, the ores, and the coals, should be given such a display as never before. Indeed here should be embodied to the fullest extent every variety of Southern resources and of Southern products and of Southern life.

No time is to be lost in getting ready. Before the doors of the exposition open every detail to the final point should have been completed and New York and all the East should thus be given an opportunity to see not only the South's resources and achievements in material things on display, but equally important the South should prove its ability to do these things, to do them energetically and broadly and do them on time. The exhibit of Southern energy in this respect can perhaps be made to have as much influence upon the sentiment of Eastern people as the exhibits of material things upon which they will gaze.

Let the South get to work at once and get ready and make this exposition worthy of its unequalled resources and of its remarkable achievements.



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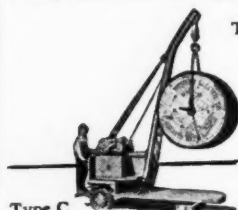
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Manufacturers Record

EXPONENT OF AMERICA

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of the South and Southwest as the Nation's Greatest Material Asset

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Vol. LXXXV No. 9
Weekly.

BALTIMORE, FEBRUARY 28, 1924.

{ SINGLE COPIES, 20 CENTS.
\$6.50 A YEAR.

Two Southern States Being Led by Their Governors to Broader Activities.

TWO states, greatly blessed in natural advantages, but backward in material development as compared with other Southern states, are Kentucky and Mississippi. Each has its peculiar advantages and resources.

Kentucky, in the very heart of the country, is by nature one of the most richly endowed regions on earth. It should be the very foremost leader in Southern development, but it is not.

Though Mississippi has not the great coal resources of Kentucky and lacks some of the other advantages of that state, it has resources peculiar to itself sufficient on which to build an empire of wealth.

But Mississippi, like Kentucky, has failed to utilize its advantages and has failed to attract capital to the same extent as other Southern states.

Mississippi has long been regarded as the very hotbed of bitter political feuds and of hostility to capital, and Kentucky was for so many years concentrated in the thought of whiskey making and horse racing that its people were not taught, as they should have been, to devote their thought and energy to their limitless raw materials for material upbuilding. And yet Louisville, Kentucky's leading city, has made material progress which if it were general throughout Kentucky would long ago have made that state one of the foremost in the Union.

It is an interesting fact in connection with these two states that the recent addresses of their governors have struck a high note and pointed the way to better things for the future. Governor Whitfield, of Mississippi, in his inaugural address stressed the importance of retaining at home the young men and the young women who are being educated in the schools of that state.

Mississippi has been growing young men and young women, and educating them, and then sending them out to make a living elsewhere. If the state had for years been raising thousands and tens of thousands of head of the finest livestock, and after bearing the cost of raising them had given them freely without anything in return to other states; or if after raising its cotton it had given it without a dollar of return to other sections, its loss would not have been so serious as is the loss of its young men and young women. They count for far more than material things; and yet by virtue of the lack of the opportunity for brain and brawn in Mississippi, the young people of that state have gone out by the thousands and the tens of thousands into other regions to find opportunities for success.

Governor Whitfield realizes the seriousness of this situation, and points to the need of a wider development in the state which will create employment for these young people.

In discussing the negro question he said:

"Any plans for a new era, any change in our economic life, any reorganization of our agricultural industry, which leaves them out is doomed to failure. If we would work out our own economic salvation we must at the same time take their well-being into consideration. There is a definite relation between their happiness and prosperity and that of the whole South. If we would hold these laborers in the South we must compete with the Northern employer on his own lines. We must improve working and living conditions alike, and the negro's health, foster manual training and modern agricultural methods, and see to it that at all times the less favored black man shall get a square deal in his business relations and in the courts. Our own self-interest prompts it, humanitarian conditions demand it, our Christian duty as a more favored people enjoins this upon us."

The MANUFACTURERS RECORD has long been seeking to impress upon the people of the South the facts so clearly stated by Governor Whitfield in regard to the negro question. A letter received a few days ago from S. I. Carpenter, of Sharon, Mass., in acknowledgement of a copy of that interesting negro story called "Aeneas Africanus," is as follows:

"Thank you very much for the small story book. I have always been somewhat interested in real negro life of the South. The negroes appeal to me as a source of somewhat different life features.

"Lately there have come into my community two negro families from either Alabama or North Carolina, in both cases a man, woman and two children. They say they came for better living chances, etc., a desire to have their children better off. I do not pretend to know their opportunities but do know there is abundant work to do and that both men and women of the two families are constantly employed at good wages and that they are improving their surroundings.

"One of the men did some work for me with his team, a good pair of horses, acquired since he came to this section. He is absolutely trustworthy, a good worker giving full time, doing exactly as he agrees. He is really an acquisition in a community deficient in laborers. He gets for himself and team about \$1.80 an hour.

"He has bought an old half-burned house and barn and is really improving it all the time, has fixed it up to live in, good paint finish, gas and electric light, telephone, pays his bills more than promptly, sends his children to school, goes to church. A town like this can absorb a number of such and be better supplied with an essential element superior to the average foreign born, of whom we have many, of course."

Not all of the negroes who go North are of the character of those mentioned in this letter of Mr. Carpenter, and not all of them are by any manner of means doing as well as

those he mentions. Many of them have greater hardships than they have in the South. Nevertheless, here is a condition which is possible to a very large number of negroes, and the South must meet this condition and give to these people, as Governor Whitfield suggests, as good advantages in every respect as they can find elsewhere.

In discussing other phases of Mississippi affairs Governor Whitfield said that the state must be pledged to give a square deal to business, whether large or small, so long as business obeys the laws; and he added:

"Capital will not come into this or any other state where it is unjustly harassed in the courts and by governmental agencies, and denounced in the press and by the individual citizens."

Probably nothing else has done the South as much harm as the habit of many of its newspapers in bitterly assailing capital and big business interests to the point of vilification. No sooner does a business man in the South, whether native to that section or coming from elsewhere, express himself in favor of a protective tariff, for instance, than some of the newspapers denounce the whole tariff business as a robber scheme, and tariff advocates as "robber barons." No man wants to bring his family into a community in which his political views, or his economic views, are thus denounced day after day by the press and by the politicians. This spirit of vilification of business men because of their economic views has probably been the greatest hindrance to Southern development.

W. D. Ratliff, Mississippi Manager of the Reserve Loan Life Insurance Company of Indiana, writing to the MANUFACTURERS RECORD in regard to Governor Whitfield's address, calls attention to the paragraph in reference to the treatment of foreign investments in that state, and adds:

"The legislature has been elected in full sympathy with Governor Whitfield's views, so that foreign capitalists can feel that their investment in Mississippi will be fairly treated in the future."

The message of Governor Fields to the General Assembly of Kentucky took ground equally as high as that of Governor Whitfield. Governor Fields freely admitted the fact that Kentucky has not measured up to its opportunities. Indeed there were, he said, 20,705 square miles of that state unmapped on July 1, 1923, and much of it an unsurveyed mineral wilderness. Nothing, he says, would aid so much to the development of the state's mineral resources as a complete basic topographic survey of the state.

Special emphasis was laid by the Governor upon the importance of good roads for Kentucky and the extension of its school facilities. In order to carry out these plans Governor Fields recommended that the legislature submit to the people for approval or disapproval a bond issue of \$75,000,000, of which \$13,000,000 would be for extension of school facilities; \$50,000,000 for improved highways; and \$6,000,000 to take care of state indebtedness; the balance of the money being used for topographic survey, and reformatories, hospitals, etc.

The progress of North Carolina was used by Governor Fields as an illustration of what similar activity in the way of highways and school extensions would do for Kentucky, and on this point he said:

"The wealth of North Carolina is estimated by the assessment of its property which increased more than 100 per cent before the completion of a similar program."

It is an important fact bearing on the development of the entire South that the two states of Kentucky and Mississippi, which as stated have not kept progress with that of other Southern states, are now being stirred to greater activity by their governors. Under the lead of Governor Field and Governor Whitfield, and the men who are backing them in their good work, it is altogether likely that these two states will soon keep step with the progress of other Southern states.

WHY NORTH CAROLINA OPPOSES GIVING MR. FORD MUSCLE SHOALS.

IN "National Resources," issued by the North Carolina Geological and Economic Survey, very strong ground is taken against permitting Mr. Ford to secure Muscle Shoals. It is claimed in this statement that the water power potentiality of Muscle Shoals comes largely from the rivers of North Carolina and it adds that if Muscle Shoals were treated as a power plant under federal regulation it would be connected with power distributing systems of Alabama, Tennessee, Georgia, South and North Carolina for the delivery of excess power as it could be availed of in these states.

"It must be remembered," says National Resources, "that although Muscle Shoals is in Alabama, the major sources of its power are in North Carolina and that the main feature of all Muscle Shoals plans is the construction of reservoirs on these North Carolina mountains to regulate the stream flow to the site of the plant. It would be no less than a perversion of the state's natural resources to permit their disposal in a manner tantamount to a denial of their output by North Carolina industries."

On this point National Resources adds:

"How many North Carolina readers of newspaper headlines, articles and editorials realize that the Henry Ford proposal as to Muscle Shoals contemplates the definite loss to North Carolina industry of a vast amount of electrical energy to be derived in the main from North Carolina rivers?"

"How much publicity has been given to the fact that under the terms of a widely advocated lease this home power would not only be put to foreign use, but would in all probability become the backbone of a highly competitive industrial area enjoying a practical Government subsidy in the form of cheaper power rates at North Carolina's expense?"

"Muscle Shoals propaganda has created the prevalent impression that somehow the wizard of the cheap automobile is to make fertilizer for the farmer at a nominal price; it is forgotten that, whatever use he would make of the property would involve the utilization of great quantities of the state's waters in such a manner as to preclude their energy from turning a single North Carolina wheel.

"It is true that Mr. Ford has never promised cheap nitrates, but the delusion to that effect has served to cloud the real danger that Muscle Shoals may be diverted from its destiny and major use as a great distributing center for hydro-electric power."

While the people of Sheffield and Florence, Alabama, very naturally desire the utilization of this entire power for their immediate benefit and are clamorous to a large extent that Mr. Ford be given the privilege of using all of this power for his individual activities in the immediate Muscle Shoals neighborhood, the greater good of the greater number demands that the entire South shall be taken into consideration and that this power shall be distributed for the benefit of as large an area as possible. That is one phase of the discussion of this situation which to a great degree has been overlooked by the people who have been carried away by the propaganda in the interest of Mr. Ford, the most skillful publicity creator which this country probably has ever had, excepting Andrew Carnegie, and in some respects exceeding Mr. Carnegie in publicity ability to as great an extent as his wealth now exceeds that which Carnegie had.

Mr. Ford's greatest genius has not been in the making of his enormous fortune and the development of his wonderful motor industry. Great as are his achievements in that respect, we believe even greater are his achievements for creating publicity for himself, a publicity never, we think, equalled in this country or probably in any other. His genius in this direction necessarily commands admiration, but that admiration does not justify the country turning over one of its greatest

natural assets, Muscle Shoals, for a hundred years, as a gift to the wealthiest man in it. If this gift were made on Mr. Ford's terms it would probably be in many respects the greatest subsidy ever given by any government in the world to any individual enterprise.

INADEQUATE SALARIES TO TEACHERS AND PREACHERS.

A LETTER from the West to the MANUFACTURERS RECORD in regard to the pay and the employment of teachers and preachers says that "experience when efficient should be more valuable than inexperience in matters of education and religion. The East does not shelve its ripening servants as quickly as the West."

The writer of that letter calls attention to the very lamentable condition in many parts of the country where the teacher and the preacher are inadequately paid and are cast aside, sometimes when at the very ripest of their abilities, for the activities of younger men or women. The man who wrote this letter is both a teacher and a preacher. He is only 60 years of age and believes that he can preach and teach better today than ever before in his life; and yet he has found it difficult to get employment at as much as \$65 per month. Referring to the number of his children, whom he is trying to educate, he asks the question: "How can one support and educate a family on \$1200 a year? Last year I preached regularly to a country church and received for it \$20."

There is no community sufficiently well off to maintain a school or a church that does not disgrace itself and minimize the importance of education and of the ministry when it pays such beggarly salaries. The preacher and the teacher are doing the highest work on earth. Upon their training depends the life of the coming generations. They mold the character of children in these days to a larger extent in many cases than do fathers and mothers. As teachers they plant in the minds and hearts of the young the things which make for their future welfare. As ministers of the Gospel they preach the Gospel which makes for their eternal welfare. Surely such men and women ought to be adequately compensated for their work.

THE INFLUENCE OF GOOD ROADS.

IN one of Dr. Crane's recent letters published in the daily papers he said that the thing that is keeping China back is mud. "China," says he, "lives in mud, rides in mud, walks in mud, and eats mud."

This is largely true, and the roads in much of China are so impossible and impassable that that great country can never be thoroughly civilized or developed except in spots until it has learned to build roads.

All through civilization the advance of nations has been marked by the building of good roads. It is folly to expect that people who live amid dirt and squalor, with impassable mud roads, can ever make much material, or moral, or spiritual advancement unless they are of such inherent strength of character that they can rise above all their environment.

The building of good roads is the uplifting power for any people. It changes their outlook on life. It broadens their material potentialities, and adds to their moral and spiritual and educational opportunities.

The men who are building good roads are laying the foundation for building the people of a country up to a higher standard. People who, like the Chinese, live in mud, walk in mud, and travel in mud, must be almost super-human if they do not gradually grovel downward into mud, mentally and spiritually.

"CROWDED OUT."

WHEN the editor of the MANUFACTURERS RECORD first began his newspaper experience as a boy in the office of an old commercial paper, he knew nothing about the newspaper game, but one morning as he picked up the weekly issue of the paper for which he was acting as office boy, he read at the top of the editorial column these words, which always have impressed themselves upon his memory:

"Owing to the heavy pressure of advertising upon our columns today all editorial matter is crowded out."

Unfortunately, the MANUFACTURERS RECORD has never been so pressed with advertising as to make such an announcement necessary, but if our advertisers should ever feel like "crowding" our columns to that extent we will do the best we can to accommodate them. That, however, is not the point at issue just now for we see no signs of such a happy condition coming to pass, that is, happy for the business office. But the point at present is this. So many exceptionally interesting and valuable articles have recently been crowded upon us that some of them have been carried in the office for many weeks awaiting their turn. Most of them we feel sure will be more interesting to our readers than anything likely to appear in our editorial columns. We are, therefore, permitting these special articles to crowd out our "brain children" or editorials now in type, and perhaps may do so for another week or two in order to give our subscribers the opportunity of reading the many splendid stories awaiting their turn for weeks.

AN EX-SERVICE MAN SEEMS TO THINK ABUSE INSTEAD OF ARGUMENT WILL HELP THE BONUS.

Schell-Sasse Manufacturing Co.,
Jacksonville, Fla., February 1.

Editor Manufacturers Record:

Note attached with regard to your article, "Shall the Ex-Service Men Receive a Bonus or Not?"

Perhaps you can give them a reason for their country owing them nothing, instead of side-stepping the issue with deceit as Mr. Quinn's article assumes Mr. Mellon is doing.

They may be able to understand a logical reason if they heard just one, but practically all such reasons so far advanced fail to hold water, like Mellon.

Like your article mentioned, all opposition deals in generalities. Why not be more specific?

"If there were such a time it has passed."

If I owed you \$100, five years past due would I claim relief under statute of limitations?

Is the United States claiming such exemption upon their obligation to ex-service men?

Don't dodge it.

How do you know "Such a time has passed?"

Get interested, look into merits of the bonus "Sure 'Nuf."

WM. A. SCHELL.

The foregoing letter is based wholly on a misrepresentation or misunderstanding of the article we published. If Mr. Schell had taken the trouble to read the article which he criticizes, he would have noticed that the statements made were by ex-service men either now in the employ of the MANUFACTURERS RECORD, or who volunteered when in the employ of this company. The MANUFACTURERS RECORD expressed no opinion whatever on the subject of the bonus, but merely asked that the men who had been in the service should express their views, and in order that they should be absolutely free to say what they thought for or against the bonus, it was expressly requested that the editor should not know who had written the articles submitted, and he only knows by whom one of the articles was written because that was sent direct to him and signed.

The MANUFACTURERS RECORD is never in the habit of dodging any question. It has expressed its opinion in times past on the bonus with the utmost freedom, and every expression it has made on the subject was in favor of the bonus, but not

because the ex-service men asked it, but because we believed it to be the duty of the country to offer it. Unfortunately, however, many of the ex-service men have used so much abuse for argument that they have alienated many who in former times were in favor of a bonus and very radically changed the whole situation until they have injured their reputation for real patriotism.

We do not regard the bonus question as one of finance, for we have never doubted for a moment, regardless of Mr. Mellon's views or the views of any one else, that this country is abundantly able to pay a bonus if it should be deemed wise from other standpoints to do so. But there is a very active and aggressive movement among former service men in opposition to the bonus. These men believe that it is a reflection upon their patriotism to press the Government for the giving of a bonus, and this movement is growing in such force that it indicates that a large proportion of the ex-service men are just as strongly opposed to the bonus as others are in favor of it.

The financial side of the question we think can be entirely eliminated. If for other reasons a bonus is wise and proper we do not doubt the ability of this country to pay it. We do not accept the financial arguments against it as sound; but we very seriously question the methods which some ex-service men are putting forth to win the bonus; and we likewise very seriously question the good faith of many politicians who are favoring a bonus, because they think that by doing so they will win the votes of ex-service men. For if these very politicians should find that the number of ex-service men opposed to a bonus was larger than the number in favor of a bonus they would immediately flock to the side which would give them the greater number of votes.

THE DEMAND FOR HIGHER ETHICS IN BUSINESS.

THE American Wholesale Grocers' Association, one of the representative business organizations of the country, through J. H. McLaurin of Jacksonville, Fla., President, in one of its recent bulletins published with hearty commendation the declaration of principles adopted by the American Bankers' Association, and published in our issue of October 18. Commenting on that challenge to the nation's business men for higher ethics with a statement that "the primary need of the world is moral and spiritual regeneration as the essential for economic recovery," Mr. McLaurin adds the following:

"The American Wholesale Grocers' Association with eagerness and satisfaction seeks to lend a hand in spreading this gospel. I especially commend the subject matter of this bulletin to those wholesale grocers who because of their disregard for both the ethics and economics of merchandising are bringing discredit, demoralization and destruction to a great institution.

"There are men in our ranks who decline to recognize the inalienable right of men in their same line of business making a fair, honest living out of that business and they are expressing their opposition to that plan of merchandising through indiscriminate, unreasonable and destructive price cutting. Such men refuse to believe they owe a duty not only to themselves but to society and in their conduct they challenge the truth of the principles espoused by the American Bankers' Association, quoted herewith.

"We point every wholesale grocer to the paragraphs quoted above and submit that they may with great profit have them reproduced and placed in the hands of every man and woman connected with their enterprises.

"We agree with editor Edmonds of the MANUFACTURERS RECORD in his statement:

"'Brave, strong, true words. They challenge the business man's attention for they are addressed to business men.'"

RESPECTFULLY REFERRED TO MR. VANDERLIP.

(From James 3, verses 5 and 6.)

"Even so the tongue is a little member, and boasteth great things. Behold how great a matter a little fire kindleth!

"And the tongue is a fire, a world of iniquity: so is the tongue among our members, that it defileth the whole body, and setteth on fire the course of nature; and it is set on fire of hell."

FROM DETROIT'S "GRAND OLD MAN" AS HE HAS BEEN CALLED.

Detroit, Mich., February 14.

Editor *Manufacturers Record*:

I esteem the MANUFACTURERS RECORD above all magazines that come to my table. I am enclosing my check for \$6.50.

HENRY M. LELAND.

THE ENGLISH SITUATION.

ARTHUR KITSON, of the Kitson Engineering Co., Ltd., Stamford, Lincolnshire, England, writing to the MANUFACTURERS RECORD in regard to the change of Government, said:

"However, we are hoping that the new broom will sweep clean and give us a better administration than any previous Government. At any rate, MacDonald has the opportunity of his life, by reviving business prosperity.

"You may doubtless have seen Mr. McKenna's speech to the shareholders of the Midland Bank in which he comes out strongly against the deflation policy. It has taken some of our politicians and economists four years' experience to learn what you and I knew before the deflation policy was even started. Business is still frightfully depressed and we have over two millions of unemployed. Bankruptcies are general, and conditions, far from improving, seem to be growing even worse."

THE CHICAGO TRIBUNE'S GOOD WORD FOR THE SOUTH.

FOR once the Chicago Tribune, departing from its usual custom, has said something favorable to the South. Referring to how terms of reproach have become terms of which people are proud, the Tribune says:

"Our fathers used Johnny Reb as a term of hatred. We use it as a term of affection. The Southerners may not wholly believe it, but there is now appreciation and affection for the gray in the North, and most of the admiration for the heroic Southern figures carved on Stone Mountain, near Atlanta, when they are finished, will be in the exclamations of tourists from the North."

The Tribune is correct in this particular case. The term Johnny Reb has become a term of endearment not only to the old Confederates themselves, but to those who fought against them on the battlefield. It is likewise correct in saying that the people of the North will regard with admiration the heroic figures to be carved on Stone Mountain. This memorial will be the greatest which the world has ever seen.

Rising about 1000 feet above the level of the surrounding land, Stone Mountain is in itself one of the wonders of the whole country. And when there has been carved on it, deep down into its face, the figures of the heroic men like Lee and Jackson and others who have honored all Anglo-Saxon civilization, hundreds of thousands of tourists not only from this country, but from all the world, will visit Stone Mountain to see the marvel, for no other land in the past or in the present has ever been able to boast such a memorial.

ONE HUNDRED YEARS OF COTTON MANUFACTURING.

A "CHRONICLE of Textile Machinery 1824-1924" issued by the Saco-Lowell Shops, Boston, Mass., in commemoration of the centennial of these shops, rises far and away above the usual history of a business enterprise, even one which has been in operation for one hundred years. These shops, which are the combination of a number of individual enterprises dating back to the early days of cotton manufacturing, have a history intimately associated with the entire textile industries of America, and reaching out of recent years into South America, Mexico, China and Japan. Pictures of some of the larger foreign cotton mills equipped by these concerns add a striking interest to the value of the book.

It is well said that there is hardly a cotton manufacturing country in the world that is not operating some Saco-Lowell machinery, and for almost fifty years these shops have been exporting cotton machinery to various countries throughout the world. The first cotton mill ever built in China was equipped with machinery from the Lowell shops forty years ago, the order being placed by Li Hung Chang, so well known to the people of this country. A mill equipped in Brazil by the same shops at about the same time made a dividend of over 100 per cent in the first year of its operation.

No one who desires to study the textile industry from any standpoint, as an investor, operator or promoter of textile enterprises, should fail to study the history of these shops as told in their beautifully printed book. The growth of these shops has kept even pace with the industrial development in New England, indeed in some ways they have probably been leaders in New England development and they built much of the textile machinery which made New England for so many years the outstanding leader of cotton manufacturing in this country.

To us, however, the most interesting feature of the whole book are the pictures of the founders of these various shops and of the officers through later years. No man can study these photographs without seeing back of them the mental evidence of why New England grew—the strong, virile character of New England life that made New England what it is. Rarely have we seen photographs of men which in every lineament bespeak that sturdy strength of New England character, for which that section is so widely known.

In studying these pictures one can see why these shops have been so uniformly successful and why they have attained to their present preeminent position. Here are represented men whose faces show in every lineament, character and strength; the power to will and to do, the power to achieve, which has marked the best life of Anglo-Saxon civilization.

THE RECENT INCREASE IN BANK FAILURES.

SINCE January 1 and up to February 2 there have been seven national banks and ninety-five state banks closed in the United States, according to comprehensive figures received by the MANUFACTURERS RECORD from D. R. Crissinger, Governor of the Federal Reserve Board, Washington. Of the national banks in question three are in North Dakota, two in South Dakota, one in Montana, and one in Utah. Of the state banks closed there are nineteen in South Dakota, fifteen in North Dakota, nine in Minnesota, six in Iowa, four in Nebraska, four in Kansas, six in Missouri, five in New Mexico, and seven in Oklahoma, the rest being scattered in several states, although there were no failures at all in New England and only one in the Eastern or "Middle" states, as they were formerly called. There were twelve failures of state banks in the Southern states, viz. three in Georgia, one in Florida, one in Alabama, four in Texas, two in Arkansas

and one in Kentucky, but no failures of national banks in either of these last three sections.

During the last half of 1923, (the Government's fiscal year terminates on June 30), according to reports received thus far for that period, there were 54 national banks and 185 state banks closed, the latter representing only eleven states. Of the national banks closed there are ten in North Dakota, three in South Dakota, eleven in Montana, thirteen in Oklahoma, two in Nebraska, one in Kansas, one in Wyoming, two in New Mexico, three in Minnesota and one in Iowa, these being all in the grain country. Of the state banks closed there are seventy-five in North Dakota, thirty-four in South Dakota, thirty-one in Minnesota, twenty-two in Oklahoma, eight in New Mexico, three in Nebraska, two in Wyoming, three in Texas, one in Idaho, two in Utah and four in Arizona. It will be observed that 140 of the state banks that failed are in the three adjoining states of North Dakota, South Dakota, and Minnesota.

Since January 1 a new system has been adopted for obtaining this information and this fact explains why the figures for the last half of 1923 with regard to state banks are not yet complete but delayed so that they will have to be compiled at Washington later on. However, the important states chiefly affected are included in the eleven states mentioned in the preceding paragraph.

This record of the last half year up to December 31, 1923, of 54 national bank failures and 185 state bank failures, contrasts strongly with the figures for the entire fiscal year of 1922-23 when in the entire United States only 37 national banks closed and 237 state banks similarly suspended operations. In the fiscal year of 1921-22, there were closed 33 national banks and 364 state banks. In the fiscal year 1920-21 there were closed 28 national banks and 330 state banks. It will be at once perceived that unusual conditions were responsible for this large increase of bank failures in the last half of 1923 and however much authorities may seek to put the blame on bad banking it all comes back to the inflation policy encouraged by the Federal Reserve up to 1919 and the drastic deflation following. Officially urging inflation up to the summer of 1919 and then forcing deflation, the result was a complete breakdown of agriculture and the impoverishment of farmers, and this is why banks which held on as long as possible have now gone down in such large numbers.

A record of 61 national bank failures in seven months and of 280 state bank failures in the same period is startling to put it mildly. This covers the reports since July 1 last up to February 1 with the state bank reports for the latter part of 1923 not yet completed. In the fiscal year immediately preceding this seven months period there were 37 failures of national banks and 237 failures of state banks. The average failures of banks for the three complete fiscal years considered here was less than 33 national banks and 310 state banks a year, but this statement consolidated also shows for the entire period since July 1, 1920, 152 national bank failures and 1211 state bank failures.

Maryland Geological Survey Vol. XI.

Volume XI of the Maryland Geological Survey, Edward Bennett Mathews, State Geologist, is a large, finely printed book of 550 pages. Part I presents the results of a very detailed restudy of the coals of Maryland and Part II gives the results of an exhaustive study of the fire clays of the state. The report on the coals is by Charles K. Swartz and Wm. A. Baker, Jr., with an introduction by Mr. Mathews, who has also written on the "Origin, Distribution and Uses of Clay, with Special Reference to the Fireclays of Western Maryland," the report on the fire clays being by Arthur S. Watts, H. G. Schurecht, Chas. K. Swartz and George M. Hall. The work is illustrated and there are also maps.

A Centennial Celebration for Texas.

By DR. CHARLES W. DABNEY, Houston.

The people of Texas are exceedingly proud of their history. They have a peculiar right to be. For the history of the establishment of their state is not only different from that of any other of the states admitted to the Union after the beginning, but it is a story of romance and heroism equalled by none of the states except the original thirteen. Like the men of the original states, Texans fought for and won their own independence through a hard struggle with cruel oppressors and established a republic of their own which they carried on with a noble spirit for ten years before it was admitted to the Union. This was done chiefly by men from the Southern, slaveholding states.

A few of the men who settled in Texas, like some of the pioneers in all the Western states, may have left their old homes in the Eastern states for prudential reasons, but the great body of the people who settled Texas were as fine and true as ever lived and their leaders represented the noblest type of citizen of the old states. No more gallant or heroic characters ever lived on this or any other continent than the men who died at the Alamo, at Gonzales, and at Goliad, or the men who won the independence of Texas at San Jacinto. And no people ever had more heroic leaders than these people in the persons of Austin, Houston, Burnett, Sherman, the Whartons and their associates. They were wise statesmen too as well as great soldiers and leaders.

It has been truly said that San Jacinto ranks as one of the great, epoch-making battles of the world. Though only a short, sharp contest—seven hundred Americans defeating four thousand Mexicans in less than half an hour—San Jacinto turned the tide against Mexico forever and secured the Southwest and California for Anglo-Saxon civilization. In relation to territorial extension it ranks in its results with the Louisiana Purchase as a nation-forming event. As a liberty-winning contest, it ranks next to Yorktown on this continent. When one recalls these facts of history it is not surprising that the people of Texas are deeply stirred as they approach the centennial of these great events.

It was one hundred years ago on January the first, 1922, since Stephen F. Austin settled his first colony of Americans in Texas and from that date forward the thrilling events which made Texas first a republic and then a state in the Union follow in rapid succession. The republic and state of Texas were an evolution—an evolution that took some 25 years to work itself out. The three great periods of the development of the state of Texas are thus: first, the colonization of Texas, a part of Mexico, by Americans; second, the winning of its independence and the forming of the republic, and third, the struggle for admission to the Union.

These facts are recalled to explain one of the problems which confront the Texans of today in the preparations for their centennial celebration.

Texas may be said thus to have had its conception in the colonization of Americans beginning in 1822; its birth in the declaration of independence on March 2, 1836 followed by its victory over the Mexicans at San Jacinto in April, and its union or marriage with the United States, (Texans are fond of calling it Texas' annexation of the United States), in 1846.

Which period or event shall Texans celebrate or shall they attempt during the next 23 years to celebrate them all in succession?

To consider this question and to take steps toward forming an organization which should take charge of the whole business and make plans for a celebration of the evolution of this great state, a hundred years ago this decade, a convention met in the capitol at Austin on the 12th of February on the call of the Governor of the state. The conclusions and recom-

mendations of this convention should interest every American.

The inception of the present movement is interesting. At the annual meeting of the advertising clubs of this district at Corsicana, Texas, last November, Theodore H. Price of New York made an address on the subject: "The Resources and Advantages of Texas and How to Advertise Them." In the course of his discussion, he urged that the varied and large natural resources and advantages of Texas should be made better known to the world and reminded his hearers of the historic events of a hundred years ago which deserved to be commemorated in a great industrial and historical exposition. This suggestion caught and fired his hearers at once, with the result that a committee was formed to make a general survey of the matter and feel out Texas public opinion about it. This committee conducted an extensive inquiry through the press and by questionnaires which showed that a deep interest existed in the subject throughout the state. To a meeting in Austin in January, to which many representative citizens were invited, the committee reported its findings with a proposal for a state convention of citizens to consider the matter further.

Governor Neff entered heartily and vigorously into the matter, and at the request of this meeting called a delegated convention of representatives of all the counties, cities, commercial, agricultural and other industrial associations of the state.

This convention met in the capitol at Austin on February 12 and was attended by about 600 delegates from these various bodies in all parts of the state. It was a very representative body of women and men. After a morning spent in earnest and enthusiastic discussion of many phases of the subject, it was unanimously resolved that a great centennial celebration of the evolution and history of Texas and of its educational, agricultural, and industrial development and of its natural resources, be held during the next ten years, to which all the other states and population groups of our country, and of other countries should be invited. The time and place were wisely left to be decided by a Board of Directors to be selected in part, (29 only), by election of the people, and in part (71 in all), by appointment by the men so elected and other high officials of the state from the state at large.

This board will consist finally of one hundred citizens selected for their ability and experience and influence. The plan of election and selection proposed is rather complicated, but appears to be a wise one. It is believed that it will call many of the ablest and wisest men and women in the state to the service of the Exposition.

The elections are to be held in all the districts on the same day and the persons so elected are to meet immediately thereafter and appoint the remainder of the members from the state at large. The Governor and state officials appoint others from the state at large at the same time. The Board of one hundred directors thus constituted meets then to organize on May 21 next and begin business. In the meantime, the interests of the organization including all arrangements for the election of the initial Board are in the hands of the existing executive committee. A fund of ten thousand dollars was raised for expenses. To this Board is left all the further business of organizing, financing, building and conducting the Exposition.

There was considerable interest manifested by various cities which would like to have the Exposition located near them, but the utmost harmony prevailed in this conclusion. The feeling was universal that the enterprise was successfully launched and that Texans would sometime in the next ten years commemorate in an appropriate manner the heroic deeds of the founders of their great state.

Florida Holds a Mid-Winter Fair in New York City.

EXTENT AND VARIETY OF PRODUCTS AND RESOURCES OF THE STATE A REVELATION TO THE NORTH AND EAST.

By RICHARD W. EDMONDS.

New York, February 25.

The whole story of Florida's resources and development was not told by any means by the Florida Exposition which closed last week at the Madison Square Garden. However, the counties exhibiting were scattered widely over the state and their displays were of a representative character illustrative of Florida's products.

For many years mid-winter fairs have been held throughout Florida showing the products and possibilities of the state. These county fairs have become institutions in many parts of Florida. To them came visitors from practically every state in the Union, Canada and other countries, prospective settlers, and tourists seeing the sunny South and learning of its advantages. But last week Florida, or at least nineteen counties out of the sixty-four in the state, displayed their resources in the very heart of the frozen East, bringing home to those who attended the Florida Exposition the development of the state, and emphasizing the fact that Florida in mid-winter is producing fruits and fresh vegetables and other crops while Northern fields are covered with ice and snow.

Visitors to the Florida Exposition were enabled to realize the extent of Florida's diversified crops for this one state in the South produces annually over 31 field crops, over 15 truck crops, and over 18 fruit crops, and most of these crops are grown and marketed during the winter months.

One county alone in Florida is said to produce over 900 kinds of edibles, including fowl, dairy, and meat products. Among the exhibits fifty varieties of vegetables and fruits were counted, and this was lumping a dozen or more kinds of beans under the one name, "beans," and the same for potatoes, squash, peas, etc. Besides the great variety of

tropical and semi-tropical fruits every one associates with Florida, there was displayed practically every vegetable grown in the North. It was this fact that again and again excited the wonder and admiration of the crowds. They knew about oranges and grapefruit, and lemons, but that Florida produces remarkably fine white and sweet potatoes, corn and other grains, cabbage, cauliflower, beans, tomatoes, and all the rest of the trucking crops, and is capable of producing two and sometimes three crops a season, that was the astounding thing to many who visited the show.

The North is apt to think of Florida primarily as a delightful winter playground where frosts are not and flowers bloom the year round; and secondarily as the source of a large proportion of our oranges and grapefruit. The great winter resorts are widely advertised and we all know them, at least from the Sunday supplements if not from actual experience. And the oranges and grapefruit we have always with us. But Florida in the summer is generally supposed to be a place deserted and wisely to be shunned. That people could live comfortably through a Florida summer is a strange and unbelievable thought to the uninformed Northern mind.

Nevertheless, a delightful winter climate and scenery of rare beauty are by no means Florida's only charms, and knowing the solid, year-round advantages of their state, Floridians concluded to reveal these unknown aspects to the North.

The message sent by Governor Carey A. Hardee of Florida at the opening of the exposition concisely presented the aims of the undertaking in the following:

"I would congratulate Florida that she has the privilege of making a mid-winter display of products in the metropolis of New York and I believe the people of New York as well

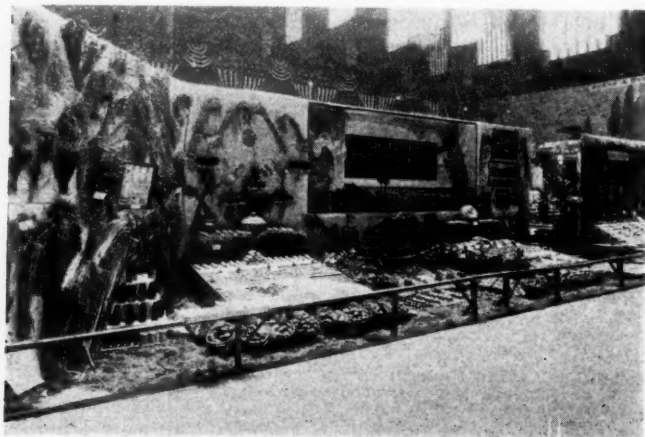


A VIEW OF THE EXHIBIT OF MADISON COUNTY, FLA.

as other sections will appreciate the privilege of seeing and studying at first hand the representative resources of a great state offering wonderful opportunities for investment and citizenship."

As Governor Hardee's telegram suggests, the state wants citizens and investors whose money and effort will promote the substantial development of her agricultural resources.

Florida wants settlers, farmers who live on their places the year round and personally attend to their cultivation, the well-to-do business men who invest in Florida land in order to have places to spend the cold months, employing resident managers to attend to their cultivation, and citizens of the better type. For while tourists and non-producing winter residents are coming in ever-increasing numbers, it is



DUVAL COUNTY EXHIBIT.

to the land-owners and producers that the state must look for development. And it was to interest prospective producers that the exposition was planned.

To learn whether the display was a real revelation to the man who had never been to Florida—and to many who had—one had only to stand near a few of the groups that assembled about the different booths and listen to their comments. Two men who looked like prosperous farmers were overheard talking eagerly of the immense size of the hams and sides of bacon displayed; biggest they had ever seen—"didn't know Florida raised pork." Or at another booth: "Look at those potatoes, won't you? I didn't know they raised potatoes and cabbage and all that truck in Florida!" One was surprised to find how little these people did know about Florida, and how greatly they were impressed by the resources exhibited.

The Madison County booth was one that specialized in cattle feed, pork and common vegetables, and the exhibit aroused great interest. Here were displayed a great variety of beans and peas, for forage, peanuts, hay, rice, rye, and common vegetables, and ham and sides of bacon of immense size. One learned that Madison County had once been a large producer of cotton, but had been forced by the boll weevil to drop cotton almost entirely in favor of diversification. The county has taken as a slogan, "The cow, the hog and the hen," and has gone in for intensified, scientific trucking, poultry and stock raising. Since the winter tourist and migratory population of Florida practically equals the fixed population, the state last year, in order to feed this tremendous influx of people during the winter season, imported \$12,000,000 worth of poultry and packing-house products that should have been produced right in Florida. This in itself offers an opportunity for Florida raised poultry and meat products.

Osceola County dug up a bed of strawberries growing in the open and bearing ripe and half-ripe fruit, loaded it into a heated car, brought it to New York, transported it to the Madison Square Garden in electrically-heated trucks, and set it up, still growing, to show how Florida grows straw-

berries while the North shivers and produces only a crop of ice and snow.

Pasco, Orange and Collier Counties accomplished the almost impossible by introducing a touch of Florida atmosphere. Orange County had a miniature orange grove in full bearing, complete even to the owner's home. The Pasco booth showed a wide range of vegetables under overhanging moss, palms, birds, etc., The Collier County booth had a cocoanut palm in full bearing, other typical Florida trimmings, and two Seminole Indians, and an alligator.

Seeing the alligator reminded one of what a contrast the exhibit of Florida was to the uncomplimentary advertising the state received at the hands of its friends in years past when practically everything printed about the state bore glaring imaginary scenes depicting dismal swamps overrun with gigantic alligators usually swallowing pickaninnies. To this day the uninformed public has this grotesque impression of Florida which no doubt helped to retard the state's progress and made it that much harder to get people to understand the real facts of its possibilities and development.

At one booth an enquirer was told that the state has about as many orange groves as it needs; that, counting the groves already set out and not yet bearing, the supply will soon exceed the demand. Other things are better money-makers; alligator pears, for instance, a luscious nutritious vegetable fruit only recently becoming widely known. At the next booth an orange grower laughed at the idea. Alligator pears were good money-makers, all right, and this was a poor year for oranges because of an exceptionally heavy yield, and distribution problems. But in agriculture all things have their bad years. As for the supply exceeding the demand, a few pessimists have been singing that dreary song for twenty years, and the demand keeps right on growing, always in the lead of the supply. Even today half the people who eat oranges don't really know how to eat them, or what they are good for.

Florida orange-growing has suffered from many things, such as the packing of fruit while it was still entirely too green; and while it might reach the Northern market looking ripe enough, the flavor was all wrong, and Florida oranges suffered by contrast with California oranges. Then, too, much faulty fruit was packed and shipped.

Citrus fruit canning and preserving is a growing industry in the state. New uses for citrus fruit are being developed in order to widen the market. Grapefruit is canned, with the result that in seasons when a great crop would otherwise glut the market a portion of it can be held over and released gradually, thus maintaining the price level. The canned grapefruit may be used for salad or as any other canned fruit is used. "We make pies of it, too," said the lady who had charge of a booth. "I'll give you a taste." "Grapefruit pie! What a mess!" I thought, and my stomach nearly threw a spasm, but as a lady offered it, there was nothing to do but to try it. I was agreeably surprised. To my taste, it seemed the one use for which grapefruit, either canned or fresh, was intended.

There are many in the Florida citrus business who have through years of careful, painstaking growing, selection and packing, developed widely known brands, both of fresh fruit and of preserved or canned fruits, jellies, and candies, that it would be well-nigh impossible for others to improve upon. At least they may be trusted to keep abreast of any progress made. They are known of old, and have their well-established markets based on long and satisfactory service. But in a business that has in the past few years been invaded by such large numbers of tyros as has the citrus growing of Florida, poor and careless growing, selection and packing must result, to the injury not only of the new members but even of the old-timers.

At the booth of the State Department of Geology and

Fisheries, building brick and hollow tile in great variety of color and form were shown from the well-known brick red to pale yellow and straw-color, and from ordinary building brick to pressed and wire-cut face brick. A heap of sponges of sizes ranging up to one almost as large as a laundry tub suggested one of the large industries of the state; sponge fishing.

A little lump of phosphate rock and a small heap of pebbles bore mute witness to the fact that Florida produces about 80 per cent of the world's phosphates. But one could not find out the percentage or even what it is used for unless he inquired. The writer was surprised to find this little exhibit of phosphates the only suggestion found anywhere at the show of a fertilizer business that is one of the largest industries of the state, and it is said to be the most scientific and efficient in the mixing and application of fertilizer that any of our states can boast. One wonders, first, why there was not a fertilizer booth; then, what a fertilizer booth could exhibit besides a few dusty-looking bags of fertilizer, or glass jars of the same thing; and then one realized that practically the whole exposition was a fertilizer exhibit. For in the past, citrus trees bore marketable crops only once in three or four years, and it was through the scientific application of fertilizers that they were made to bear annually; and it was largely through the ceaseless development and application of knowledge of fertilizers that all the agriculture of the state has been brought to its present high stage of development.

The state is well organized and prepared to welcome newcomers in agriculture. The State Department of Agriculture is organized to help growers with expert teaching and advice, in order to tide them over the difficult period of learning, and even to continue to put at the disposal of every grower all the accumulated knowledge and experience of the past. The State Horticultural Society, an organization of fruit growers, holds regular meetings and annually publishes a bound volume of reports of fruit growers' problems of all kinds.

The Florida Exposition in New York seems to have demonstrated two things:

First, many people in this section are deeply interested in Florida agriculture, and especially in the growing of truck and the raising of cattle, subjects they are more familiar with. It looks as if the exposition should become an annual event, worked out on a large scale with all sixty-four counties and the state government co-operating under one control, thus to do the thing generously, on a large scale, and without the delays and lost motion that always result under divided responsibility.

Second, the exposition has brought to light a considerable amount of interest in at least one Southern state, and this augurs well for the Southern Exposition covering the whole South, to be held at the Grand Central Palace next January. If the returns on the Southern Exposition are to be proportionately as great as they promise to be on the hastily gotten up and meagerly financed one of Florida, no pains should be spared to make the Southern Exposition a great, instructive and impressive show.

To John Ringling, of Ringling Brothers' famous circus, a winter resident of Florida who gave the use of the Madison Square Garden for the purpose, goes a large share of the credit for the Exposition as well as to those who had the vision to appreciate the advantages of placing their resources directly before the people of the East.

The board of county commissioners of Richland County, Columbia, S. C., is considering a bond election to erect a courthouse to cost not more than \$500,000. According to present plans the election will probably be held in April.

Former Service Men Who Are Opposed to the Bonus.

New Orleans, February 9.

Editor Manufacturers Record:

In your issue of February 7, I note the article, "Veterans Opposing a Bonus." It so happens I have just received a letter from a cousin of mine, a man of family, who did his bit on the other side, from which I quote:

"I received a wonderful letter from one of my old army buddies—a fellow from Indiana—such a letter as only a real 'buddy' can write to his best pal. You can't imagine how the old army days can't be forgotten, an experience that surely comes only once in a lifetime. I don't care what happens to the bonus or what the average outsider thinks of the returned ex-soldier as long as we have our experiences to look back to."

Two or three days ago I had a chat with another young man, also married, who expressed it this way: "I certainly am against a bonus. The few dollars that I would get now wouldn't do me much good and if the bonus goes through I will be paying taxes the balance of my life as will my children after me."

The fact of the matter is, there is organized propaganda to put over the bonus and in very large part the expressions emanating do not reflect other than manufactured opinion so far as the man who went on the other side is concerned. At least, that is my view.

A compensation adjustment is ingenious in that it is trying to equalize an alleged abuse that took place for those who did not actually go to war and I was never taught that two evils make a right. Granted that the easy money made and the abuses could have been corrected had we gone about it differently, all of that is past. To my way of seeing it there is hardly a man who went to the war who did not come back better morally, mentally and physically for the experience, and with that equipment in these United States of America, there is no excuse for a man not getting work and getting ahead. Further, in my humble opinion, quite a large portion of those who get easy money are harmed rather than benefited.

All of the foregoing submitted as of possible interest.

S. LOCKE BREAUX.

Contracts for Apartment House at Nashville.

Nashville, Tenn.—Contracts have been awarded by the Washington Realty Co., J. Homer Colley, secretary-treasurer, for the erection of its proposed apartment house here. The building will be three stories and basement, of fireproof construction, and will contain 58 apartments of three, four and five rooms each. Exterior walls are to be of brick, interior walls of tile and floors of concrete.

The following contracts have been awarded: Excavation and foundation, John Oman, Jr.; brick work, W. S. Crandal; cutstone work, Tanksley-Drumright Co.; carpenter work, M. M. Graham & Co.; plumbing and heating, W. H. Grewar Co.; electrical work and fixtures, Herbrick & Lawrence; painting, Charles A. Howell; plastering, Reynolds & Ferguson; oak flooring, W. H. Horn Co.; roofing, Uncle Hiram Roofing Co.; trimming hardware, Hermitage Hardware Co., and tile and marble work, A. Singer & Sons, all of Nashville.

C. K. Colley & Co. of Nashville, are the architects.

\$1,000,000 Addition for Government Hospital.

Federal Park, Md.—Plans are being drawn by the construction division of the United States Veterans Bureau, Washington, for the \$1,000,000 addition to be erected for the government hospital here. There will be six structures of reinforced concrete, hollow tile and stucco, with reinforced concrete foundations, cement floors, built-up roof, and equipped with metal doors, ventilators, wire glass and steel sash and trim. Bids will be invited and contract awarded in the spring.

Southern Made Automobiles Selling in Northern and Western Markets.

The South has been buying so many automobiles made in other parts of the country that it is especially gratifying to find that Southern made automobiles are commanding an ever growing market in the North and the West. In reply to an inquiry as to what progress his company is making in selling the Anderson car in other sections, J. G. Anderson, Chairman of the Anderson Motor Company of Rock Hill, S. C., writes us as follows:

"Last year over a period of nine months The Kirby-Javis Company, with headquarters at Wilkes-Barre, Pa., sold approximately four hundred cars in the Eastern Pennsylvania territory. Unquestionably, they will more than double this number during 1924 because they now have established a branch in Philadelphia and have sold through the month of January around forty cars and January is considered one of the worst months for automobile selling, due to the fact that there are so many automobile shows that hold the buying off until the public has an opportunity to see just what the new styles will be.

"In Pittsburgh we have a connection, the Pittsburgh-Lexington Automobile Company, which is a first-class concern and which should sell two hundred cars in their territory this season. They have already established several good dealers and are very enthusiastic over the car.

"In Scranton, Pa., our dealer sold over a hundred cars in 1923.

"During 1923 we sold in the neighborhood of three hundred cars in the New York Metropolitan District, which takes in Brooklyn, Long Island and Staten Island. At present we have a good connection in Boston who distributes through the New England territory. We are shipping cars to Providence, Lowell, Mass., Springfield, Mass., Portland, Me., and to several dealers throughout the state of Connecticut.

"We have a dealer at Jamestown, N. Y., who made quite a record. He started last year in April, and has sold forty-five cars. We have been making shipments and have contracts covering Buffalo, Rochester, Binghamton, Schenectady, Albany, Utica and under these distributing points each distributor has some dealers.

"The Roy Iverson Company, of Chicago, which handles the Anderson in that territory is an unusually live organization. The automobile show is on in Chicago this week and our men have advised us that quite a few sales have been made through the Iverson organization.

"The Hawkins Motor Company, of St. Louis, is a good substantial concern and has been selling Andersons now for some time. They have established a good business and Mr. Hawkins expects to double his volume in St. Louis this year.

"We have connections in Milwaukee, Madison, Wis., Minneapolis, and St. Paul, and have had distributors as far West as Seattle.

"Our Southern business has improved the past year on account of the prosperous conditions in the South and particularly on account of the higher price of cotton. We have dealers all through the Southern territory."

World Cotton Crop 19,125,000 Bales.

The world cotton crop for 1923-24 is now estimated by the United States Department of Agriculture at 19,125,000 bales of 478 pounds net, compared with 18,705,000 bales for 1922-23. Preliminary official estimates for the three principal producing countries are: United States, 10,081,000 bales; India, 4,111,000 bales; and Egypt, 1,213,000 bales; total 15,405,000 bales of 478 pounds net for this crop year, as compared with 15,280,000 bales for last year. No large increase is expected this year in any of the new cotton-growing areas. The United States produces 52.7 per cent of the world's cotton.

Sixty-Seven Per Cent of the Country's Cotton Consumption in the South.

For the six months ending January 31, 1924, the United States consumed 3,087,560 bales of cotton, as compared with 3,272,975 bales during the corresponding period of last season, or a decrease of 185,415 bales. The quantity of cotton consumed in the cotton growing states for the six months ending January 31, was 2,072,982 bales, or over 67 per cent of the cotton consumption of the country. For the six months ending January 31, 1923, the cotton growing states consumed 2,083,976 bales which is 10,994 bales more than the consumption for the same period of 1924.

On January 31, 1924, there were held in consuming establishments 1,633,332 bales of cotton and 2,966,466 bales were reported in public storage and at compresses, as compared with 1,988,115 bales in consuming establishments and 3,485,952 bales in public storage and at compresses January 31, 1923. In other words, the stock of cotton on hand January 31, 1924, was 4,599,798 bales, as compared with 5,474,067 bales January 31, 1923, a decrease of stocks held in consuming establishments and in public storage of 874,269 bales.

Exports of domestic cotton for the six months ending January 31, amounted to 546,253 bales, an increase of 72,817 bales over the same period of 1923. Imports of cotton for six months ending January 31 was 117,073 bales, as compared with 269,819 bales during the same period of 1923.

Cotton spindles active during January, 1924, numbered 33,339,806, a decrease of 1,897,122 spindles, as compared with January, 1923, while the number of active spindles January, 1924, in the cotton growing states was 16,346,206, or an increase of 382,614 over January, 1923.

During January, 49 per cent of the active cotton spindles of the country were in the South.

\$275,000 Office Building for Bluefield.

Bluefield, W. Va.—Dr. Thomas E. Peery has awarded contract to D. J. Phipps of Roanoke, Va., to erect his proposed building here at the corner of Bland and Federal streets, the cost of the structure to be about \$275,000. Mr. Phipps' bid for the general contract, including all work except plumbing and heating, was \$235,000. W. A. Bodell of Bluefield was awarded contract for plumbing and heating at \$24,000. J. E. Kingsbury of Bluefield, who has contract for footings and basement walls, has about completed this work. General contract calls for the completion of the first three floors by early fall and the remainder of the building early next year.

The structure will be eight stories, 60 by 100 feet, of reinforced concrete and face brick, with Indiana limestone trim. Two large store rooms will be located on the main floor in addition to a lobby, while the second floor will contain two store rooms, lobby and suite of offices for the owner. The remaining six floors will be devoted to offices. Two electric elevators will be installed. Mahood & Van Dusen of Bluefield are the architects.

Contract for \$500,000 Store at Kansas City.

Kansas City, Mo.—Contract has been awarded to the Bickel Construction Co. of this city for the erection of the proposed store building here for the Palace Clothing Co. The structure will cost about \$500,000 and will be seven stories at first, three additional stories to be added later. It will be 85 by 115 feet and will embrace in its construction hollow and interior tile, ornamental terra cotta, steel sash and trim, concrete, tile and maple floors, composition roofing, metal doors, vaults, vault lights, ventilators and rolling partitions.

Contracts for heating, plumbing, lighting and elevators have not been awarded. Frederic E. McIlvain of Kansas City is the architect.

The World's Greatest and Most Enduring Monument.

CARVED UPON THE MOST WONDERFUL GRANITE MOUNTAIN KNOWN TO MANKIND.

Will Be the Most Unique Work of Art and Sculpture the World Has Ever Known.

Superlatives alone, weak as they are, can only partially indicate the superb conception and the daring magnitude of the work involved in the Confederate Memorial that is being carved on Stone Mountain near Atlanta.

The story has been told in part time and time again, but it is worth repeating, and so we are publishing today an illustrated description of the work already done, and of the plans for this memorial, not to a "lost cause," but to the deathless valor of the men and women who for four long years carried on one of the world's greatest wars, who sacrificed all wealth and hundreds of thousands of lives in fighting for what they believed to be right.

And that war was fought, in the spirit voiced by Robert E. Lee when he warned his soldiers as they marched toward Pennsylvania, "We do not war upon non-combatants." It was carried on by the Confederacy in the spirit voiced by General Lee when he said, "Duty is the noblest word in the English language." The men who fought with Lee fought for what they believed to be their supreme duty. They were Americans of the finest type. Their record is a part of the glory of America, and now so recognized by all who fought on the other side.

None have been louder in the praise of the South in building this memorial on Stone Mountain than the leaders of the North and West. Men like President Harding, and President Coolidge, and others, have given unstinted praise to this effort to create the greatest memorial ever reared to the memory of man or of a cause, as a work of enduring value to all America.

Stone Mountain, standing out as a mighty piece of granite, the largest known in the world, with a perpendicular face on one side of 1000 feet or nearly twice as high as Washington's Monument at Washington, stretching over a length of more than 3000 feet, is in itself a marvel of creation's work. To carve on that gigantic granite monolith in the most stupendous chiseling ever dreamed of by man, the faces of Lee and Jackson and those who followed them, is worthy to rank as among the greatest achievements wrought by man, and well called by President Harding the eighth wonder of the world. Indeed, it might be called in some respects the greatest wonder in the world, for it will surpass all the seven wonders counted as the great things of the years that are gone.

Contemplate for a moment the cutting of the statue of Lee on horseback in a figure 165 feet high, in such gigantic proportions that fifteen men can sit on the brim of his hat. Contemplate the cutting of the figures of 700 men and horses commensurate with this gigantic figure of Lee, and one can gain some idea of this stupendous work of art, this sculptured memorial which as long as earth lasts will stand unmatched in all the world, for nowhere else can there be found such a mighty face of granite, built by nature on which to carve such as imperishable memorial.

It is a memorial to the memory of the Confederacy, but it has been conceived from no narrow, sectional viewpoint. It is a memorial to American heroism, to American valor, to the American sense of duty.

It is well that close by this mountain should be the city of Atlanta, typical of the untiring energy, the indomitable will, the genius which coming down from the Old South saved the South to Anglo-Saxon civilization and made it possible to create in the South of today the prosperity of Atlanta; and Atlanta is but suggestive of the prosperity of many other thriving, bustling cities to be found in every part of the South.

In this issue we have united the story of Atlanta's growth and its progress with a story of the memorial which is being carved into Stone Mountain.

Atlanta is in itself a monument—a living, breathing, virile monument built by Southern energy, Southern activity and virility and Southern resources. It is not a monument to the dead but to the living, a monument erected by the brains and energy of the men of the South to the memory of the matchless achievements of the old South and to prove to the world that the men of today, the men who have created Atlanta, have inherited a genius for business from their forebears which has built Atlanta as a supreme expression of Southern virility and Southern activity.

Giving due credit to the men of Northern and Western birth who have settled in Atlanta and taken part in its upbuilding, it must ever be remembered that fundamentally Atlanta is composed of Southern people; that it has been built by Southern energy, and since 1865 has been a living expression vibrant with life and activity of the spirit and resourcefulness of the people of the South.

Stone Mountain: A Memorial for All Time.

By ROGERS WINTER.

The head of Robert E. Lee is on the precipice of Stone Mountain.

If Gutzon Borglum should do nothing else as a sculptor, this achievement alone would entitle him to a place among the great sculptors of all time.

If his stupendous plan of transforming the perpendicular northern face of the mountain into a military panorama 1350 feet long, embracing more than 700 figures of men, horses and guns, should stop where it is, and be carried no further, the face of Lee which he has carved would stand without a parallel among the monuments of the earth.

From the strange freak of nature which it was heretofore, attracting casual attention of tourists who pass this way, Stone Mountain would become an object of wonder throughout the world, and a never-ending procession of people would journey here to gaze upon the features of the knightly commander engraved in gigantic proportions upon this everlasting and indestructible monolith.

"To your majesty we bring a greater majesty," said Dr. Plato Durham, of Emory University, in his oration at the unveiling January 19, an oration which will rank with the great classics of American eloquence.

"To your deathlessness of stone we bring the immortality of a face and a name. A sculptor rises to take his place among the world's illustrious dreamers.

"Oh, Mountain, speak your message well. When the shadows of night enwrap you, let the stars that train above your summit signal to America: 'The gray captain is on guard.' When the rain of heaven beats upon your majestic face, let all men say: 'Lee is weeping for the sorrows of a people.' Let no winds hiss through your lips of stone but, moving, make the music of 'an undying benediction. And when at last through cosmic cycles, grain by grain, you become a brother to the lowly dust, your message still will live immortal as the valor and the worth of the soul of Lee.'"

Speaking that evening at a dinner attended by governors, representatives of governors and notable men and women from all over the United States, Mr. Borglum said:

"I cannot attempt to take you with me over the whole field of thought my mind has traveled this day. Suffice it to say this—the head of Lee is on Stone Mountain. Were a tidal wave to sweep over the continent, destroying every vestige of our industry and civilization, the receding waters would leave Lee's head carved there on the mountain."

In 1915 Mrs. C. Helen Plane, the widow of a Confederate officer killed in battle, and a charter member of the United Daughters of the Confederacy, with a group of U. D. C. associates summoned the sculptor to Stone Mountain to consider a plan they had in mind of carving the head of Robert E. Lee on the precipice.

One look at that enormous wall of granite, nearly 1000 feet high and more than 3000 feet long, convinced Mr. Borglum that a head of Lee would not be enough. The ladies called on him to produce a plan which in his opinion as an artist

would be in keeping with the magnitude of the mountain. After studying the mountain for days, examining its contours from all angles, and making many measurements and surveys, he astounded them by proposing to utilize the whole stupendous sweep of the precipice as the background not of a head of General Lee, but of a great panorama in which would be portrayed the entire military forces of the Confederacy.

Publication of the plan attracted attention throughout the country and across the seas. In all the history of art there had never been proposed a thing so great, so splendid, so daring, so indestructible and imperishable. The nearest approach to it was the dream of Alexander the Great of transforming Mount Athos into a sculptured monument to his vainglorious conquests.

On account of the World War, and America's complete absorption of effort in ending the war, and the subsequent period of reconstruction, it was not until April, 1923, that an auspicious moment presented itself for the Stone Mountain Confederate Monumental Association to begin raising the money.

Getting off to a fine start with a banquet in Atlanta the evening of April 20, attended by Southern governors and representative people of affairs from many states, the Association had in hand sufficient funds to enable Mr. Borglum to start actual work on the precipice on June 18, 1923.

The figure of Lee, which is the central figure of the central group of the great panorama, was selected as the first to be carved, and the head of Lee was selected as the first part of the figure to be carved.

Removal of granite around the head of Lee was completed December 1. The carving is all to be in bas relief, which means that every figure first of all must be "relieved" by taking away the surrounding granite, so as to leave the outline of the figure standing forth in projection from the general area of the precipice.

By prodigious exertion, toiling an average of sixteen hours a day, with day and night crews of stone cutters, Mr. Borglum carved the head of Lee from December 1 to January 19, so as to have it ready for unveiling on the anniversary of the great chieftain's birth.

And when it was finished he went to Mrs. Plane and bestowed upon her the honor of giving the signal for lifting the American flag which would disclose the face of Lee upon the precipice.

On a rostrum erected for the occasion in front of the mountain were gathered a notable company, while all around it surged a great multitude of people, waiting in a drizzle of rain on a gray afternoon for the first sight of this new and wondrous work of art which was about to take its place among the world's outstanding monuments.

In his arms Mr. Borglum lifted Mrs. Plane, a lovely little lady of the old South, almost a hundred years old, but in her eyes the light of an ineffable triumph, and carried her up

the steps of the rostrum to the place of honor where she stood and waved a Confederate flag as a signal to workmen on the distant precipice to unveil the head of Lee.

And in the hush of silence which fell over the multitude as the rippling folds of Old Glory rolled upward to form a coronet upon the majestic brow of "the most knightly leader," came the voice of an old man, white-haired, standing in gray with his face uplifted to that vision:

"There he is—it's General Lee!"

And the verdict of the multitude expressed itself in a great swelling tidal wave of cheers which rolled across the valley to the wall of granite, and broke against it, and came rolling back in a mighty echo.

And that evening at the dinner where Mr. Borglum tried to speak, but was overcome by his emotions and contented himself with the few brief words quoted, Robert F. Mad-

Governor Thomas G. McLeod, of South Carolina; Governor Clifford Walker, of Georgia; Governor W. W. Brandon, of Alabama; Governor Pat M. Neff, of Texas; David R. Francis, representing Governor Hyde of Missouri; Colonel Alexander B. Clark, representing Governor Silzer, of New Jersey; Admiral James G. Williams, of the United States Navy, and Major-General David C. Shanks, of the United States Army, representing President Coolidge; and a distinguished company of Confederate veterans, Sons of Veterans, Daughters of the Confederacy, editors, educators and others who had gathered here from many states to participate in the ceremonies and take part in rejoicing over so great a triumph.

But though the head of Lee which Gutzon Borglum has carved on the precipice of Stone Mountain is incomparably greater than any other portrait in stone ever carved by human hands, it is only the beginning of a plan which when



STONE MOUNTAIN UPON THE FACE OF WHICH IS NOW BEING CARVED THE WONDERFUL MEMORIAL TO THE SOUTHERN CONFEDERACY.

dox, Atlanta banker and former president of the American Bankers Association, who presided as toastmaster, gave appropriate utterance to the feeling of pride and triumph which filled the hearts of all, when he said:

"Whatever doubts may have existed in the minds of men regarding the feasibility of this wonderful project they were shattered today when Mr. Borglum made good his promise to deliver us the finished head of Lee on Lee's birthday."

Around that banquet board were Governor E. Lee Trinkle, of Virginia; Governor Cameron Morrison, of North Carolina;

carried to completion is destined to be the supreme monument of all human history.

The head of General Lee measures twenty-eight feet from his coat collar to the top of his hat crown, and almost an equal distance from the front to the back of his hat brim. The nose is five feet and six inches from the tip of the nostril to the temple. The eye socket is as large as a water bucket. Fifteen men can sit on the edge of the hat brim.

On the day preceding the unveiling of Lee's head, Mr. Borglum gave a luncheon on the ledge of granite which will

become Lee's shoulder when the carving progresses to that stage. Governors Trinkle of Virginia, Brandon of Alabama and Neff of Texas, with their hosts in Atlanta and numerous others, formed the party. Fried chicken, hot biscuits, sandwiches, coffee and cake were prepared and sent up in a basket which runs from the ground to the precipice on a steel cable. There was ample room on the ledge for a table to be laid with covers for twenty.

These fortunate luncheon guests had the opportunity of seeing the head of Lee at close range before it was unveiled.



GUTZON BORGLUM CARRIES MRS. C. HELEN PLANE TO THE ROSTRUM FOR THE UNVEILING CEREMONIES.

They were driven in automobiles a portion of the way up the sloping side of the mountain, walked the remaining distance to the summit, and descended the precipice by a stairway of 571 steps built by the sculptor to get his men and equipment down to their work.

Needless to say, up to that moment they had no conception of the magnitude of the carving. They were stunned and speechless in the presence of a granite portrait of Lee on such gigantic scale that nothing in history affords a comparison to it. They realized for the first time the magnitude of the task which Gutzon Borglum has had the daring to undertake; but they also realized that the completion of Lee's head answers every question as to the feasibility of that undertaking, for if the sculptor can successfully carve the head of Lee on the precipice on such a scale, he can carve as many other heads as he wishes to carve, and carve the figures with even more ease, since the figures involve no such exacting requirements of portraiture.

Stone Mountain is situated sixteen miles east of Atlanta in the county of DeKalb. As its name implies, it is literally a mountain of stone, 5000 feet long, seven miles around the base and a mile to the summit up the sloping side. It is by far the largest solid body of granite in the world, containing approximately 7,543,750,950 cubic feet of stone above the surface. Its foundations underlie almost half the state, of Georgia. At varying depths the sub-strata of Stone Mountain have been encountered in borings as far north as the Blue Ridge Mountains, 75 miles distant, and as far south as the coastal plain, 200 miles distant.

Time has not produced the slightest decay in this "great granite monster" during all the ages since "a laboring earth disgorged it bare to sun and storm." A thousand centuries of erosion have touched it as lightly as the clouds touch the sky. Since the dawn of Creation it has stood as it stands when man now gazes upon it—unchanged, unchanging, imperishable.

On its northern side Stone Mountain drops in a sheer, almost perpendicular precipice, nearly 1000 feet from summit to base, more than 3000 feet long; and across this mammoth page of granite Gutzon Borglum is engraving a perpetual and indestructible monument to the men and women who dared all, suffered all and sacrificed all for the Southern Confederacy.

His plan provides for three main features, to wit:

1. The Panorama.
2. The Memorial Hall.
3. The Amphitheater.

Beginning on the right of the precipice and sweeping downward and across it a distance of 1350 feet will be carved in full relief the Panorama, representing the Confederate armies mobilizing around their leaders. On the right will be artil-



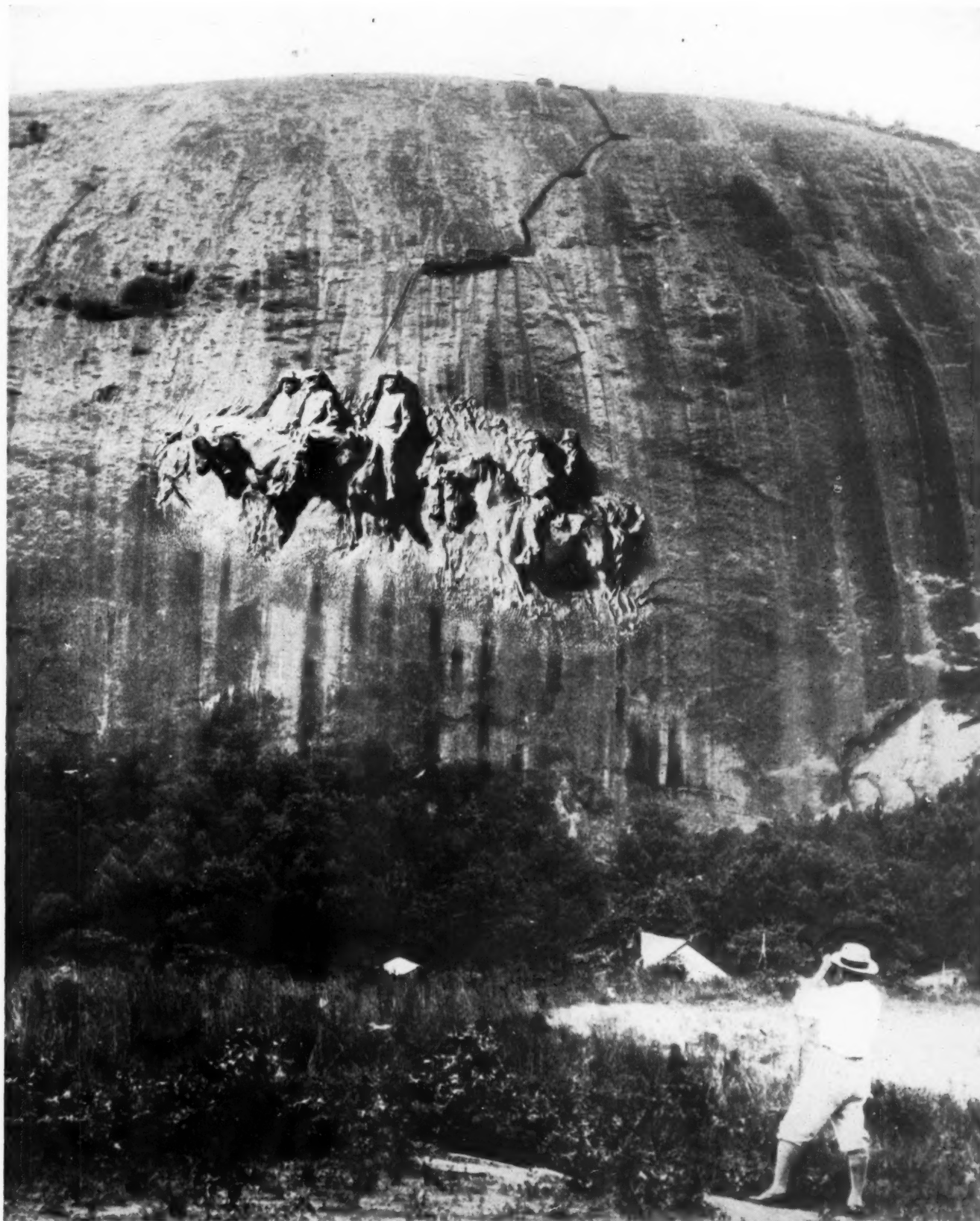
GUESTS OF THE SCULPTOR AT LUNCHEON GIVEN ON LEDGE OF GRANITE WHICH WILL FORM THE SHOULDER OF GENERAL LEE.

lery, appearing at the summit as if coming from beyond, and dropping down over and to the left across the precipice a life-like procession of men, horses and guns. On the left of these will be Confederate cavalry in full forward motion. In the center where the precipice bulges forward will be carved a colossal group representing the Confederate high

command, the matchless Lee riding by Stonewall Jackson and Jefferson Davis, flanked by four other generals of the high command, now being selected by a commission composed of the state historians of the thirteen states which formed the

Confederacy. Swinging away to the left of the central group will be column upon column of Confederate gray-clad infantry carved in the gray and everlasting granite.

Without the panorama of which it will be a part, the



CENTRAL GROUP OF THE GREAT MEMORIAL AS IT WILL APPEAR WHEN FINISHED.

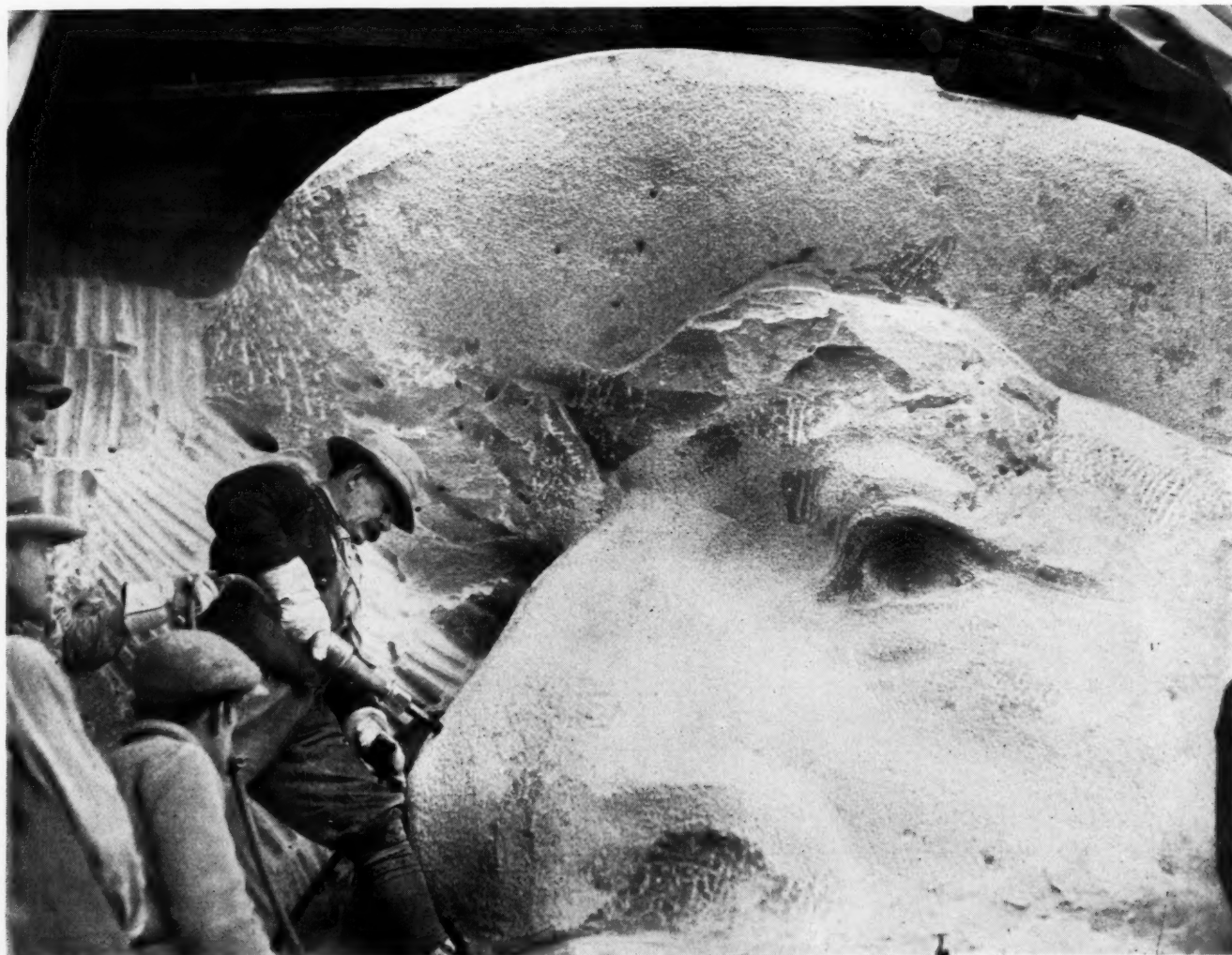
The man in the foreground is the sculptor, Gutzon Borglum. This composite picture was made by joining a photograph of the mountain with a photograph of Mr. Borglum's clay model of the central group in exactly the same relative scale as the carving.

central group alone would surpass all other monuments of history. General Lee's figure will be 165 feet high from the crown of his hat to the hoofs of his horse, or higher than a fifteen-story office building. The head of General Lee covers an area 30 feet square. Other Confederate chieftains in the central group will be carved in like proportion. No sculptured figures of ancient or modern times can be compared with them in magnitude or grandeur. There never has been in any country anything to approach them. The central group will cover an area of one and one-half acres, or 60,000 square feet of granite on the perpendicular face of a granite mountain; the tops of the figures 300 feet below the summit

each State naming its five most distinguished Confederate generals. The Governor of each appointed a committee to make these selections, and some have been made and others are now in process of being made.

Mr. Borglum's plan is to distribute these sixty-five generals in the Panorama wherever they naturally belong, according to whether they were artillery, cavalry or infantry commanders.

The depth of the figures will vary according to their size. In General Lee's figure the depth will be about twenty feet at the deepest place, (the horse's chest) and will range from that down to about four feet of depth at the top of the hat.



GUTZON BORGLUM PUTTING THE FINISHING TOUCHES ON THE NOSE OF GENERAL LEE.

of the mountain, the hoofs of the horses 300 feet above the plain.

In the whole panorama, from one end to the other, will be carved approximately 700 figures.

Seven figures in the central group, representing the Confederate high command, will be individualized portraits in stone. That is to say, the figure of General Lee in the central group will be a likeness of Lee, and the same with reference to the other six—i. e., Jefferson Davis, Stonewall Jackson and four to be named by the historical commission.

In addition to these seven, there will be sixty-five more individual likenesses. These will portray sixty-five Confederate generals, selected by the thirteen Confederate States,

The depth of the smallest figure in the whole Panorama will not be less than four feet.

Memorial Hall will be quarried out of the mountain immediately underneath the central group. Thirteen incisions will be made for removing the granite, and when the hall is finished these openings will form the windows and central entrance, thirteen in number, each one dedicated to a Confederate state. The length of Memorial Hall will be 320 feet, running parallel with the face of the precipice. It will go back into the mountain 60 feet deep and will be 40 feet high from floor to ceiling. Floor, walls and ceiling will be formed by the body of the mountain. No building material will be introduced into the hall except immense bronze doors in the

entrance in the center and bronze frames and stained glass in the windows. Along the front of Memorial Hall will sweep a broad granite esplanade formed by cutting a shelf in the mountain the length of the hall. A majestic granite stairway will ascend to the entrance from the plain.

In Memorial Hall will be gathered for perpetual safe keeping the records and relics of the Confederacy. In it will be preserved the names of all contributors to the fund for the Memorial, as well as copies of all Confederate rosters in existence, the roster of each state in a separate receptacle. On the walls of Memorial Hall will be placed bronze tablets bearing the names and deeds of Confederate soldiers, or others who served the Confederacy, in whose memory their descendants gave Founders Roll contributions of \$1000 to the fund. Like a shining band of gold these Founders Roll tablets will encircle the walls of this sacred shrine of Southern memories. In the windows and entrance will be erected very large bronze tablets bearing the names of the Governors and State House Officers of the thirteen Confederate states from 1861 to 1865, together with a summary of the military forces contributed by each state to the Confederacy.

At the base of the mountain, on the right of Memorial Hall, where a recess in the precipice forms a natural sounding board of immense power, will be built the Amphitheater, a huge granite structure rivaling the Coliseum of ancient Rome. Granite removed from Memorial Hall will supply the material. At the back of the stage, in a blocked-out incision in the recess, will be built the world's greatest pipe organ.

Such in brief outline is Gutzon Borglum's plan which has thrilled the imagination of the civilized world. In every country having any art or education it has been received with boundless enthusiasm. President Harding a short time before his death wrote a stirring letter describing the Memorial as "the eighth wonder of the world." History affords nothing comparable to it, either as a monument or a work of art.

Nowhere on earth was ever erected such a shrine as this will be. Nowhere else can it be duplicated, for nowhere else exists such a mountain. God created Stone Mountain and none but God can destroy it. In the dawn of Creation it was born; until the end of Creation it will endure. The only measurable span of its existence is from the beginning, of time to the end of time.

As old as human nature is the yearning to memorialize the buried dead—to perpetuate the ennobling influence of heroic souls—but never has mankind in all the ages succeeded in erecting an imperishable monument. Stonehenge is a jumble of granite slabs. The Colossus of Rhodes collapsed two hundred years before Christ and lay in ruins a thousand years. The Parthenon of Greece, whose marble figures were the most perfect sculpture ever produced, has been virtually dismantled by vandals and art collectors. The Pyramids of Egypt are slowly crumbling. Those marvelous temples which adorned the Nile when Egyptian civilization was in its glory are but mounds of debris. The Roman coliseum is a skeleton of pagan grandeur.

But now in the province of God it becomes our privilege to create here in the heart of the South, in memory of Southern heroes, within sight of a great and decisive Southern

battlefield, the one supreme, imperishable monument of human history.

All other traces of civilization past and present may be buried in the centuries of a far distant future, as Babylon is buried, but so long as time lasts this monument will endure.

When earth's final cataclysm lifts the oceans from their depths and rends the continents asunder, the last remaining fragment to pass into oblivion will be Stone Mountain, bearing upon its face and holding in its breast the deathless record of a people's deathless memories.

"Lee will be on horseback by fall," is now the sculptor's promise.

Those who saw him work like a demon to finish Lee's head by January 19, overcoming obstacles and delays of an unavoidable nature which would have daunted most men, repose complete faith in his ability to perform this great task. Gutzon Borglum has achieved the impossible so many times on Stone Mountain that those close to him are accustomed to take it for granted that nothing connected with the memorial project is beyond his reach.

When he promises "Lee on horseback by fall" he means that he will complete the figure of Lee and the figure of the horse in that time.

His contract calls for completion of the entire central group within three years from the date when it was signed, which was in September, 1923.

He expects to have not only the figure of Lee on horseback by fall, but to have the head of Stonewall Jackson substantially advanced. As stated, the carving of a head requires more time and pains than the carving of a figure, since the head must be a portrait.

The cost of the central group, by the terms of the contract, is to be \$250,000. The cost of the entire Panorama, plus Memorial Hall, plus the Amphitheater, is to be about \$3,500,000.

Mr. Borglum estimates ten years as the outside time required. A commission made up of distinguished engineers have checked his plans and pronounced his estimates sound, both as to cost and time. Further, they reported that both these elements, (cost and time), would largely depend upon the rapidity with which the association could command the funds.

Everything is being done by public subscription, and the work will go forward as rapidly as the public supplies the money to carry it along. Atlanta has subscribed \$250,000 to carve the central group, but these subscriptions are payable over a term of five years, as are all subscriptions, and this period runs longer than the time limit for carving the central group. Hence it is necessary for the association to build up a body of subscriptions sufficiently large to produce annual payments which will keep the work going at full scale.

Hollins N. Randolph, a distinguished Atlanta lawyer and a lineal descendant of Thomas Jefferson, is president of the Stone Mountain Confederate Monumental Association. Through the MANUFACTURERS RECORD he sends this message to all who are interested in the memorial:

"With one crew of drillers and stone cutters, Mr. Borglum can make a certain rate of progress. With three or four crews, which can be quite as easily supervised, he can go three or four times as fast as he can with one. We have received an enormous amount of publicity and public interest is aroused as I have never seen it in any enterprise of this kind. What we now need is money. We want to put at Mr. Borglum's disposal the full number of men he can supervise, and to keep him going at top speed."

ATLANTA.

AN INSPIRING STORY OF GROWTH IN TRADE, INDUSTRY, FINANCE, EDUCATION, AND MUSIC.

Atlanta as a Center of Offices for Northern and Western Concerns.

By J. H. REED, Atlanta.

Atlanta's history, Atlanta's rapid growth to a city of 230,000 inhabitants, Atlanta's remarkable industrial and cultural development during the past twenty years can all be traced to one source—the railroads.

It was a railroad that gave Atlanta its first impetus towards becoming a great city, the old Georgia line from Atlanta to the coast. It was the railroads coming down from the North and in from the East and West to round the Appalachian system of mountains that made it develop into a great commercial and industrial center.

To the railroads, then, Atlanta owes its very being and through the railroads entering its terminals today Atlanta owes the most of what it is.

Today Atlanta has eight systems of steam railways operating thirteen main trunk lines out of the city in all directions. The total mileage owned and operated by these eight great systems is 21,276.

Eight thousand miles of railroad track radiate from Atlanta to form a network over the state of Georgia.

And as for terminal facilities of the city—there are two terminal passenger stations, several freight terminals, four belt lines, with a mileage of more than twenty, completely encircling the city, and ample facilities for han-

dling the immense volume of freight that comes in and out of the city every day.

Over three hundred and fifty merchandise and package cars originate in and move out of Atlanta over its various steam railroads every day. This does not include solid carloads from one consignor to one consignee, nor freight transferred from one road to another, nor does it include freight passing through the city.

Over one hundred and fifty passenger trains arrive and depart daily at the terminal stations in Atlanta. Two-thirds of these are through trains. Through Pullman cars to and from nearly every important city in the United States touch Atlanta, and most of these arrive and depart between the hours of five o'clock in the morning and eleven o'clock at night, making Atlanta's passenger schedules very convenient for the traveling public.

In short, Atlanta's location and its railroad facilities have automatically made it the distributing center for the seven states comprising the Southeastern section of the United States, and commercial and industrial firms alike have been quick to take advantage of this.

As the railroad center of the great Southeast, it quite naturally follows that Atlanta should be the distributing center for the section as well.

If you will take a map of the Southeast, and place your



FIVE POINTS—JUNCTION OF WHITEHALL, PEACHTREE, MARIETTA STREETS, EDGEWOOD AVENUE AND DECATUR STREET.



SKYLINE OF ATLANTA. SPRING STREET VIADUCT IN FOREGROUND.

hand over Atlanta, with the thumb pointing towards Charleston on the map, you can get a clear idea of how Atlanta serves the section as a distributing center. The palm of your hand will represent Atlanta, and your five fingers will represent the main routes to the principal ports of the Southeast—Charleston, Savannah, Jacksonville, Mobile, and New Orleans.

All of these seaports can be reached over-night from Atlanta.

And Memphis, Nashville, Cincinnati, Louisville, and other important cities of the interior can also be reached in a single night from the "Gateway of the Southeast."

Is it any wonder that Atlanta has become one of the greatest distributing centers in the country?

It has been estimated that 60 per cent of all the larger manufacturing companies in the United States maintain distributing offices and warehouses in Atlanta. At any

500; deposits totaling \$121,223,316, and total resources of \$152,480,647. For the past five years, its bank clearings have been more than two billion dollars a year. During 1923 they reached the huge figure of \$2,738,986,892. Only twice in the history of the city have the bank clearings exceeded these figures, in 1919 when clearings reached \$3,290,000,000 and in 1920 when they totaled \$3,250,000,000. In both instances, the clearings were the result of the war. This time they are the result of a solid and substantial increase in business of all sorts. Clearings in 1923 exceeded those of 1922 in every month of the year, a sure indication of the return of prosperity to the section and a good omen for continued prosperity during 1924.

That the government recognizes this city as the banking center of the section is shown by the fact that it has located the Sixth Federal Reserve Bank here.

Atlanta thus has ample banking facilities for any busi-



TWO OF THE FINER ATLANTA RESIDENCES.

rate, more than five hundred Northern and Eastern manufacturers and producers have their Southeastern sales offices here, and the number is growing as rapidly as office facilities can be provided for them.

As Atlanta has grown as a railroad and as a distributing center, so have its banking facilities, its office buildings, its public works grown to keep pace with them.

Take the banking facilities, for example.

Atlanta has twenty banks and trust companies, with a combined capital, surplus and undivided profits of \$25,212,-

ness enterprise and its banking institutions are well known throughout the entire South.

In 1915 postal receipts for Atlanta totaled \$1,396,013.19. In 1920 they totaled \$2,744,654.39. In 1922 they amounted to \$2,953,623.59, and in 1923 they exceeded \$3,250,000, these figures being the highest ever recorded in the history of the city.

The steady growth and the great size of these receipts indicate, as nothing else could, the tremendous amount of business being done out of Atlanta.

The rapid development of the city as a commercial and distributing center has called for the erection of a great number of offices, hotels, apartments and homes.

Atlanta has eighteen leading hotels, for instance, with 3220 rooms, most of them with private baths. But these hotels have proved inadequate to the demands made upon them by the steady growth of the city and the increasing popularity of Atlanta as a convention center, and three important hotels are being added to the number at the time this is written.

The first of these is the Hotel Ansley Annex, built at a cost of \$500,000 and recently thrown open to the public. The second is the great Biltmore Hotel, which will cost nearly \$7,000,000, contain 560 rooms, and be the most magnificent hotel in the South when completed in March. And the third is the new Henry Grady Hotel, which will contain 250 rooms and cost in the neighborhood of a million dollars.

Even with this important hotel construction, hotel officials say that new work will have to be started in a few years

will relieve the shortage of offices for a number of years to come.

In 1922 Atlanta's building permits reached \$20,584,000. In 1923 the total was \$27,091,910 the largest yet, this big showing being made possible by the construction of a half-dozen sky-scrapers as above mentioned.

What is Atlanta doing in the way of public utilities to keep pace with this increase in business, in building, and in population?

Well—for one thing, the Georgia Railway and Power Company is spending \$11,568,000 in additions and improvements to its power facilities during the next three years. It will double its capacity in that period of time.

The projects under way are the completion of the Tugalo dam and power house, now under construction; the building of a new dam and power plant to be known as the Mathis-Tallulah power house, work on which was started during the summer; the construction of a third high-tension line into Atlanta to supplement the two lines already carrying



LOOKING NORTH ON PEACHTREE STREET, ATLANTA.

to take care of the increase in population, or the city will find itself as crowded as before.

Atlanta has thirty-five office buildings, with 5500 offices at present in service. But in addition to these, nine new office buildings of from six to twelve stories and containing 800,000 square feet of floor space, have just been completed.

The new office buildings include the twelve-story "101 Marietta Street" building, which is one of largest concrete structures South of the Ohio river; the twelve-story McGlawn-Bowen building; the ten-story Glenn building; the eight-story Bona Allen building, and the ten-story Exchange building, to house the Atlanta Cotton Exchange, at a cost of \$200,000.

In addition to this, two wings are being added to the Hurt building which, when completed, will make it the largest office building in the entire South.

These new office buildings, it is expected, will provide space for any new firms desiring to locate in the city, and

power to the city, and extensive improvements in the service rendered by the company as regards power and transportation.

In addition to these, the Georgia Railway and Power Company is planning to install motor bus lines from the rapidly developing suburbs either to the termini of its street-car lines, or all the way into town, a new feature on the part of a power company and a service calculated to relieve the traffic conditions of a crowded city.

Within a radius of 150 miles of Atlanta there are 428,000 horsepower of hydro-electric power installed and in service, with 290,000 additional being developed. More than 200,000 horsepower of this went into use the first of the year, giving Atlanta a total of more than 700,000 horsepower for industrial purposes.

The Georgia Railway and Power Company's resources, backed by two large reservoirs with a capacity of 70,000,000



\$250,000 BONA-ALLEN BUILDING.

kilowatt hours, together with its extensive transmission lines and its interchange power arrangements with five other major power companies in the Southeast, give Atlanta ample power facilities, and virtually insure her industries against any interruptions in service.

The charge for power in the city ranges from \$1.44 for the first 10,000 kilowatt hours per month to 60 cents for users of 100,000 kilowatt hours per month and over. An investigation made by the Railroad Commission of Georgia a short time ago showed that Atlanta had the third lowest average power rate of any city in the United States.

Rates on gas range from \$1.75 to \$1.65 per 10,000 cubic feet, according to the amounts used.

Atlanta owns and operates its own system of water works. Its plant, supply, and sewerage system is valued at approximately \$12,500,000, and it supplies the entire city and its

suburbs with water. There are 428 miles of water mains in operation, and these mains are tapped 38,500 times.

Water rates are \$1.00 per month for each house, store, etc., for an allowance of 6000 gallons per month, and wholesale and manufacturers' rates are arranged on a sliding scale, ranging from \$1.00 down to 70 cents per thousand cubic feet.

In 1922, approximately 9,000,000,000 gallons of water were pumped into the mains—or about 25,000,000 gallons a day.

The water works department will ask for a bond issue in the near future, it is understood, of \$7,145,000 with which to build an impounding dam across the Chattahoochee river, put in a new intake station, equip a hydro-electric power plant, and make needed extensions to its water main and sewerage system.

The department was granted a large appropriation at a



\$750,000 PERSHING APARTMENTS.

recent bond election, but the rapid growth of the city changed conditions so that it was decided to hold this money and install a complete new system which would meet the needs of a city of 500,000 population.

As the commercial, banking, and industrial center of the



VIEW OF EARLY CONSTRUCTION ON YANAH DAM OF GEORGIA RAILWAY & POWER CO. ON TUGALO RIVER BELOW TUGALO DAM AND POWER HOUSE.

Southeast, Atlanta has drawn to herself the highest class of people, and it is only natural that she should be the educational center of the Southeast, also.

Atlanta has 52 institutions of learning in addition to its public school system and its commercial colleges. Among these institutions are the Georgia School of Technology—which, with the aid of the city, recently put on a successful campaign for a building and endowment fund—Emory University, Oglethorpe University, and Agnes Scott College.

All of these institutions rank with the highest institutions of learning in the country, and draw thousands of students to Atlanta every year.

But Atlanta is proudest of its new public school buildings now nearing completion.

Three years ago Atlanta's school buildings were old, small, and totally inadequate to meet the needs of its rapidly-growing population. A \$4,000,000 bond issue was passed, and now Atlanta has school property second to no other city of the South.

In the past two years eighteen new school buildings have been constructed, all fireproof, all of uniform design, and all on the unit system, capable of further expansion when the need arises.

And two more buildings, the Senior Boys' High School and Senior Girls' High School, each costing over \$500,000, will go into commission this year.

In the eighteen new buildings, there are 510 classrooms,



A GROUP OF ATLANTA CHURCHES.

and the new schools constructed and old ones renovated are now capable of caring for more than 50,000 children.

Already, however, the Atlanta school board is laying plans for further expansion. For the past three years, the school population of the city has been increasing at the rate of 6000 a year, and in order to take care of this increase, the board has determined to ask for a \$5,000,000 bond issue this year to build additional units on the schools just completed and construct new buildings needed.

Having once brought its school system up to date, the city intends to keep it at the top.

In line with the school building program, calling for the construction of a Junior High School in each of the four main sections of the city, is the city's plan for municipal markets, which provides for the eventual construction of four markets in the four sections outlined.

Construction on the first of these buildings, which will occupy an entire block on Edgewood Avenue and will cost fully \$150,000 when completed, is already well under way, and the market will be opened this spring for the use of farmers around Atlanta. Work on the other three will be started when suitable locations can be secured.

The curb market plan is a direct result of work of the Atlanta Women's Club, which a few years ago established

in the United States, which supports each year a season of Metropolitan Grand Opera.

This is held for a week each year, immediately after Easter, in the city auditorium, and is attended by music-lovers from all over the South.

In addition to this, Atlanta is the only city South of the Mason and Dixon line maintaining its own Symphony



"101" MARIETTA STREET BUILDING—COST \$2,250,000, INCLUDING 50-YEAR LEASE OF SITE.

a curb market off Edgewood Avenue, near the city auditorium, and is one of which Atlantans are justly proud.

We were speaking, however, of educational facilities rather than curb markets.

In line with this, it might be well to note that Atlanta is the musical center of the Southeast, among other things. It is the only city in the South, and one of the few cities



\$400,000 GLENN BUILDING.

Orchestra. This was organized last year under the direction of Enrico Leide, a well-known composer and director, and is supported by more than a thousand "patrons" who love music and who are public-spirited enough to want others to love it, too. No charge is made to the concerts of the Symphony Orchestra, which are held each Sunday afternoon at the Howard Theatre during the musical season.

Incidentally, the Howard Theatre is one of the few million dollar play-houses in the South.

But while Atlanta is primarily a railroad center, a distributing center, for the section, it is nevertheless an important manufacturing center as well.

The city is surrounded by a territory rich in natural resources. To the South lie the great forests of long-leaf and yellow pine. To the North and East are the hardwood and cedar of North Georgia, Tennessee, Kentucky and West Virginia. The annual value of lumber cut in the South is over \$450,000,000, not to mention naval stores, which have an annual value of more than \$25,000,000.

Within a few miles of the city are inexhaustible supplies of marble, granite and limestone. As for the mines of Georgia, they produce iron and coal, asbestos, barytes for manufacturing paints, bauxite for the manufacture of aluminum, and clays for every conceivable purpose.

Indeed, it has been said by experts that the clay supply of the future lies within the boundaries of Georgia.

These raw materials and the presence of an adequate supply of hydro-electric power have resulted in the rapid development of Atlanta as a manufacturing center.



NEW \$1,000,000 DEPARTMENT STORE OF RICH BROS., ATLANTA.

It is almost impossible to put one's finger on any one industry in Atlanta and say "this is the leading industry of the city."

There are thirty machine shops and foundries in Atlanta, among them some of the largest enterprises in the South. There are 22 furniture factories, 22 establishments making bread and other bakery products, 16 factories manufacturing women's clothing, 14 plants making confectionery, 13 manufacturers of men's clothing, 12 bottlers—some of these being the largest companies of their kind in the world—and eleven cotton mills.

And that is barely touching on the list of factories. Everything from hats to spring mattresses finds a place in some Atlanta factory—and last but not least, Atlanta is fast taking the lead in the printing industry.

There are 66 printing plants, with an investment of more than \$2,000,000, and having an annual production of nearly four million dollars, \$3,958,480, to be exact.

The five big railway shops in Atlanta employ the largest number of men, having 8000 workers on their pay-rolls. More than 4500 workers are engaged in the cotton mills in and around Atlanta, and some 2600 people are employed in the printing industry.

The great diversity of the city's manufacturing interests makes it possible to secure all kinds of labor. Atlanta is an open-shop town, and an employers association maintains an office in the Chamber of Commerce building which not only aids men in finding employment, but aids the employers of the city in their search for suitable men, thus making itself invaluable in more ways than one.

Another feature of Atlanta's labor situation is that its white labor is 99 per cent Anglo-Saxon, and there is an

almost boundless reservoir to draw from in the Appalachian mountains.

There is another feature which we should touch on, and that is insurance.

Atlanta is not only the undisputed fire insurance center of the Southeastern states, but ranks as the fourth greatest fire insurance city of the United States.

Its geographical position and railroad facilities make it the natural point for the location of the main Southeastern offices of this great business. And in addition to containing the managerial and general agency departments for 50 great American and foreign companies, Atlanta is the home of the Southeastern Underwriters' Association, the Southern Adjustment Bureau, and the Southern Salvage Bureau, which takes care of all damaged goods taken over by the insurance companies.

The amount of the premiums passing through these departments approximates \$25,000,000 a year.

Atlanta's altitude, 1050 feet above sea level, gives it a moderate climate. It has one of the lowest death rates in the United States. And, while we are on the subject, its hospital facilities are excellent.

The Grady Hospital, which is maintained by the city, has been given a class A rating by hospital authorities for a number of years. And this year its range of service will be greatly widened by the new Steiner Memorial Cancer Hospital, the first of its kind to be built in the South, which will be constructed near the Grady at a cost of \$300,000 and maintained by an adequate endowment fund.

Work has already been begun on this great institution, and it will be opened to the public some time this year. Free treatment will be given by the institution to all who

are suffering from cancer, and it will have the best staff and most modern equipment that can be secured.

The Wesley Memorial Hospital has also been recently completed near Emory University.

This hospital, built at a cost of nearly \$1,500,000, is one of the best equipped institutions of its kind in the country, and is a splendid example of modern hospital construction and operation.

We were speaking of climate a while back.

This reminds one that Atlanta is the center of another activity, and that is conventions. Its climate is making it

alone brought in more than \$2,000,000 last year for the benefit of the trade.

During the eleven years the Atlanta Convention Bureau has been in operation, it has brought to the city 2400 conventions, with a registration of more than 3,000,000 people.

There have been a number of projects started in and around Atlanta during the past two years which are of more than local interest.

Chief among these has been the Confederate Memorial on Stone Mountain, near Atlanta. This is described elsewhere in this issue of the MANUFACTURERS RECORD.



TUGALO DAM AT ITS LATEST STAGE OF CONSTRUCTION.

one of the most popular cities in the United States for the holding of conventions, and the city handled 265 of those in 1923.

These 265 conventions brought to the city more than 75,000 delegates.

According to the estimates of the International Association of Convention Bureaus, the average delegate spends three days at each convention he attends, and puts out an average of \$10 a day for the three days.

In which case, Atlanta merchants figure that conventions

Then there is the Spring Street Viaduct, recently completed. This viaduct is expected to materially relieve traffic congestion in the down-town section of Atlanta, and it has already made its influence felt in building activity all over the city.

Indeed, the Spring Street viaduct might be termed the viaduct that changed the course of a city's building, for since it was started, half a dozen new sky-scrapers have been erected along Spring street, and this thoroughfare promises to develop over-night from a neglected by-way into one of the city's principal business streets.



\$6,000,000 ATLANTA-BILTMORE HOTEL VIEWED FROM THE COURT SIDE.

And last, there is the new Union Stock Yards, Atlanta's latest business development.

A group of business men, headed by W. H. White, Jr., and Asa G. Candler, Jr., have recently taken over the old Miller Union Stock Yards, and will develop it into yards comparable to the stock yards in St. Louis or Chicago.

But those who know say that the best is yet to come. The new Plaza project being considered by the city's leading business men, will improve its railroad facilities immensely. The new office buildings have at last supplied enough offices for the business enterprises desiring to come into the city. New industries are being developed every



PALACE APARTMENTS ON PEACHTREE ROAD.

A million dollars, and more if necessary, will be spent on the project, which will make Atlanta the center of another industry, the livestock industry of the Southeast.

With the end of 1923, Atlanta closed the greatest year in its history.

year, and new plants built. And in the meantime, manufacturers and merchants in the field are constantly expanding their trade.

Atlanta is going forward to her goal of 500,000 population at a pace equalled by few cities in America.

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A Manufacturer's Protest Against Immigration.*

By ELON HUNTINGTON HOOKER, President of the Hooker Electrochemical Company.

Despite my position as a manufacturer and employer of labor, I am for restricted immigration. I wish to go even further and state that if legislation in the present Congress is not passed to this effect I am in favor of definitely cutting off all immigration entirely until we can establish some law that will properly restrict and regulate immigration into America.

It seems to me that it is time for all American citizens to view this matter from the standpoint of citizenship and to disregard the individual pinch or inconvenience to which we may be put whether we are looking at it from a standpoint of servants in our house or employees of our industry.

America has been the target for a great deal of propaganda and criticism and some scolding on the basis of her responsibility to the world. I feel that the greatest contribution America can make to world affairs is to demonstrate that her people can, "form a more perfect union," that a mass of humanity can "establish justice, insure domestic tranquility" and carry out the other fundamentals laid down in our Constitution. At this present moment we are only in the midst of this demonstration and the experiment of government in these United States is not by any means assured.

We hear many people say that we are all of us immigrants and that it is the immigrants who made this country great. To such I should like to point out that this country was founded by a small body of men who left Europe because of persecution and who came here to found a new form of government. They were actuated by an entirely different motive than is the motive of our latter day immigration. The originators of this government had to conquer a wilderness and actually with their brain and brawn to build a government. In doing that, much shedding of blood occurred. Their suffering and privation we must not forget and it is well to recall the contrast of conditions then, with the attraction which now inspires the immigrants to come here. This latter attraction is largely one of personal gain and financial improvement; it therefore seems to me that we, the descendants of the original founders of America, have a right to lift our voice in defense of the heritage which our ancestors made possible. We have suffered in the past and we are suffering at the present time certain evils because of immigration; the importation of negroes into this country was the direct cause of our Civil War and our nation had to go through bloodshed, hardship and the horror of war to fight out the principle involved in the words of the Constitution "in order to form a more perfect Union."

We have recently seen here events traceable to immigration and to the aliens in our midst who have not as yet become imbued with loyalty to America and the spirit of America. You have only to recall the cases of sabotage during the recent war, but more fundamental and as directly illustrative of the dangers which we are now suffering I wish to call your attention to the town of Windber, in western Pennsylvania. This town was founded in 1897 when the mines of that part of Pennsylvania were opened. At that time there were 1600 English and 400 American miners working. At the present time the town has a population of 9500 comprised of 18 different races of recent immigration segregated in their own colonies, speaking their own language, reading their own newspapers.

We are told that 50 per cent of the population of New England is alien. The Foreign Language Information Serv-

ice of the American Red Cross estimates that there are 63,000 alien societies for the benefit of aliens in the United States, that these alien societies influence at least 25,000,000 people in this country. Whatever the original purpose of these societies, be they for social reasons, for fraternal or nationalistic sentiment for the preservation of the language, they are un-American and hold back the processes of Americanization in this country.

There are 36 different racial groups in the United States, speaking 42 different languages and dialects. This population is served by 1200 newspapers and magazines printed in foreign languages.

Dr. Spencer L. Dawes, of the New York State Hospital Commission, has stated that it cost the State of New York for last year over \$4,500,000 just for the care of maintaining insane aliens in institutions.

A recent hearing in Washington developed the fact that 7½ per cent of the total revenue of the several states is used in caring for degenerates and dependents of foreign stock. In some states almost 30 per cent of our taxes collected go for this purpose.

From the report of the Committee on State Affairs of the National Republican Club we learn that New York State under the recently approved \$50,000,000 bond issue, will have to apportion of this sum, from nine to ten million dollars for new equipment and construction for the care of the alien insane who constitute 25 per cent of the inmates in institutions.

From our last census we are told that one third of the population of the United States is either alien by birth or of alien parentage. It is this infiltration of alien stock into America and its continuing alien in ways that I have pointed out that constitutes one of the greatest dangers we have to face and also one of the largest problems we have to solve.

We need, it seems to me time to solve it, by cutting off or making at least a material reduction of the ingredients which are causing our present indigestion of alien races. America must pause and take stock of herself. We must do some investigating and face our problems squarely and ask ourselves a few searching questions, and continue the process, now being carried on in Washington, to the shame of all of us, of washing our linen in public.

What is the purpose of the United States?

We are great industrially, much greater than our forefathers ever could have conceived when they sought here to build a new nation.

In the present age we seem to be engaged in a rush, a drive to burn our supply of coal, to convert our deposit of metals into finished products, to chop down our forests, to burn our oil. This is quite justifiable in so far as it contributes to the health, happiness and advancement of mankind and so long as we remain masters of things, materials and wealth and at the same time maintain the standard of citizenship. The questions which we all must face frankly and squarely and which we must ask ourselves individually and collectively are these: Are we maintaining our standard of citizenship? Are there evidences of decay in the quality and purity of this citizenship? Personally as I view events in America I feel a sense of degradation and I feel that we all must purge ourselves and go through a process of house-cleaning.

It was the spirit and character of our forefathers which created a form of government new to the world at that time, and it was their character and spirit which sustained our free institutions during the infancy of this government up to the time when the government was strong enough to function. The body of our colonial stock and all our immigration 100 years after we declared our independence

*An address at immigration meeting held under joint auspices of the American Defense Society, Inc., and Immigration Restriction League, Inc., at Hotel Astor, New York.

came of the only race which has been successful to any considerable degree in the establishment and carrying forward of free representative government and of an individualistic life supported by such government.

Right here I think it is important to stress the point that I am not considering the superiority of one race over another. The point which I think we must squarely set before us is the difference between races and civilization. Our original ancestry was largely Anglo-Saxon and as such it is different, not superior, to other world races. It came of a distinct European stock, having a distinct language and distinct history, which came to America from only a small section of Europe.

The races which have not in the course of ages shown an aspiration or an aptitude for the ideals set up in this country and the duties of free citizenship are different material and are, therefore, not the kind of material for the making of Americans, nor are they of the kind we must have to meet and to preserve future American responsibilities. Our future depends upon our citizenship, and its moulding and forming is in our hands and is the important guarantee which we of this generation can pass on. The races of Africa, Asia, the Near East and Mediterranean regions have had abundant time and wealth of resources to have built up a successful, free individualistic civilization such as ours is and will be so long as it is American.

Ramsay Traquair, in *The Atlantic*, recently stated, "The Anglo-Saxon stock still constitutes fully two-thirds of the population, and almost the whole of the rural population. This stock is quite certain that it intends to remain dominant, and to remain Anglo-Saxon, but it is hardly possible for the present Americans to absorb the mass of Poles, Lithuanians, Russians, Greeks, Bulgarians, Italians, Hungarians and Jews and to remain unchanged. These people have their own ideals of politics and government."

I think we must frankly confess that the theory of our melting pot is a fallacy. On this point Prof. Ward, of Harvard University, said, "We have deceived ourselves into thinking that we could change inferior beings into superior ones. We have thought that sending the alien children to schools, teaching them English, giving them flag drills, and letting them recite the Gettysburg Address and read the Declaration of Independence, would make Americans of them almost overnight. Yet the laws of heredity are at work. We cannot make a heavy draft horse into a trotter by keeping him in a racing stable. We cannot make a well-bred dog out of a mongrel by teaching him tricks. Nor can we make a race true to the old American type by any process of Americanization, essential as that undertaking is for creating better citizenship."

Upon this the Secretary of Labor comments, "The intelligence tests applied to soldiers in the army during the great war have demonstrated, the scientists assert, that nearly one half of our foreign-born population is to be classified in the two lowest levels of intelligence rating * * * The effect on the American people of this steady incursion of individuals of low mental capacity can be readily seen."

"If," adds Professor Holmes, "we had to receive the millions of Europe who, we are told are ready and anxious to emigrate to America, we should have such an overwhelming mass of ignorant, poverty-stricken humanity on our hands that 'Americanization' in any reasonable time would be a hopeless task. Conditions in our cities are bad enough now. With unrestricted immigration they would be almost intolerable."

Just here arises a question upon which the American people are in total ignorance. It is generally assumed that without the great immigrant masses that have come to this country we should be deficient in population. Nothing could

be further from the truth. General Francis A. Walker, who was superintendent of the 10th and 11th censuses has shown that whenever our immigration rate has gone up our native birth rate has gone down, and that whenever the immigration rate has dropped the native birth rate has risen. He has shown, for instance, that when the immigration percentage was but 4.7 our percentage of natural increase was 31.9 and that when the immigration percentage rose to 41.7 our natural increase percentage fell to 15. "For every immigrant that lands in America, one less child is born to an American," Walker concludes.

General Walker is not alone in his deductions, for the principal authorities now agree that the United States would have a larger population today, all of them of basic stock, if there had been no immigration since 1820, and that as a matter of fact we have certainly been substituting one race for another. If, say these authorities, we admit a million from abroad who have a lower wage scale than the people now here, a million Americans will remain unborn.

Hon. James J. Davis, Secretary of Labor, has said, "More foreigners have passed through Ellis Island within a few months than there were in the hosts of the Huns and Vandals who utterly destroyed the boasted civilization of the Roman Empire. The historians and scientists tell me that all the great civilizations of the past have fallen, not through hostile invasion, but through the peaceful penetration of alien peoples, usually entering their gates as workers, or slaves."

"According to the Department of Justice" says the Saturday Evening Post, "90 per cent of all the agitation in the United States is due to aliens. From the Haymarket Riot in Chicago down through the horrible massacre at Herrin, you find the impress of the undesirable foreigner. He is the prize fomentor of trouble * * * Self preservation demands a minimum of immigration."

Says the Secretary of Labor, "Immigration affects our political future, for it involves the entrance into America of red radicals from the revolution-torn countries of Europe, who do not hesitate to preach the downfall of American institutions and the whole American scheme of representative government * * * We are told that Communistic propaganda in the United States is constantly in touch with the blood-drenched headquarters of the Soviet in Moscow, and we hear that emissaries of Lenin and Trotzky were despatched to the United States to preach their doctrines to American citizens. * * * Under our immigration laws we admitted to this country last year (1922) some 30,000 individuals from Russia."

Two privileges are pressed into the hand of the immigrant when he touches American soil—the right, be he moron or competent, for or against our institutions, to a voice in our affairs equal to that of any who has expended a life's labor in making our nation great, and the right, whatever his breed, to mix his blood, be it wholesome or foul, with that of our children.

How large a part immigration has played in the present status of our national character as presented in the evidences of graft in the high places I am not prepared to state, but the thing that is important is for America to look at and properly estimate the kind of character we now at this moment possess.

As a nation we have become apathetic and indifferent. Some experts say that only 30 per cent of the voters entitled to vote exercise their franchise; others put the figure much lower. This, if it be true, is a tragic example of indifference and if indifference is the outstanding characteristic of the American character today it must be stimulated.

The only solution and the greatest step we can make is to develop an homogeneous people in order to create a spirit of nationalism.

It is said of the French people that out of every family from one to two sons have died for France on her battlefields and this is given as a reason for the intense patriotism of the average Frenchman. We lack that spirit of patriotism here. Is it because America constantly gives and exacts very little in return from her citizenship?

Ladies and gentlemen, it is time for America to stop and examine herself and she cannot do the job of examination in the turmoil of an inpouring horde from foreign countries.

[Mr. Hooker, if anything, has underestimated the number of alien stock in the country. According to the last census over 34 per cent of our total population was of foreign stock. In New England over 60 per cent of the population is of foreign stock; in the Middle Atlantic States over 53 per cent is of foreign stock; the East North Central States have over 42 per cent foreign stock; and in the West Central States and on the Pacific Coast about 44 per cent is foreign stock.

It is only in the South that the foreign population is small. The Southern States have a foreign born population of only 2.7 per cent. The lowest proportion of foreign stock in any section of the country is in the East South Central States of Kentucky, Tennessee, Alabama, and Mississippi, with 3 per cent foreign stock and only eight-tenths of one per cent foreign born. North Carolina leads all the States in the smallness of its foreign population with three-tenths of one per cent foreign born and only seven-tenths of one per cent of foreign stock. What a contrast this is with the large percentage of foreigners in other parts of the country. For instance Rhode Island has over 69 per cent of foreign stock.

Of the ten leading cities of the country nearly two-thirds of their aggregate population is of foreign stock. New York city with a population in 1920 of over 5,600,000 had 4,300,000 inhabitants, or over 76 per cent, of foreign stock. Of Chicago's population of over 2,700,000 in 1920, over 72 per cent was of foreign stock.

These are facts which show that too many aliens are entering this country at a too rapid rate, because it is utterly impossible to assimilate them for their own good and the good of America. It is the herding together and crowding of foreigners into congested districts of the country which handicaps efforts to spread the doctrine of Americanism for many of these foreigners though in America live in their own little world, using their native language and reading only their own language newspapers and periodicals. They are in America but they are still foreign in living and in thought, and the prey of every unscrupulous agitator.—Editor MANUFACTURERS RECORD.]

Texas Wealth Increased Over \$3,552,000,000 in Ten Years.

The total amount of the principal forms of wealth in Texas, December 31, 1922, was \$9,850,896,000, as compared with \$6,298,246,000 in 1912, reports the Department of Commerce. This is an increase in ten years of \$3,552,650,000, or 56.4 per cent. Per capita values increased from \$1541 to \$2010, or 30.4 per cent.

All classes of property increased in value from 1912 to 1922, except live stock, which decreased from \$394,904,000 to \$327,807,000, or 17 per cent. The estimated value of taxed real property and improvements increased from \$3,300,397,000 to \$5,564,437,000, or 68.6 per cent; exempt real property from \$307,667,000 to \$398,169,000, or 29.4 per cent; farm implements and machinery from \$62,123,000 to \$105,892,000, or 70.5 per cent; manufacturing machinery, tools, and implements from \$109,869,000 to \$208,339,000, or 89.6 per cent; and railroads and their equipment from \$519,764,000 to \$640,968,000, or 23.3 per cent. Privately owned transportation and transmission enterprises, other than railroads, increased in value from \$171,954,000 to \$385,085,000, or 123.0 per cent; and stocks of goods, vehicles other than motor, furniture, and clothing from \$1,431,568,000 to \$2,030,468,000, or 41.8 per cent. No comparison is possible for the value of motor vehicles, which was estimated in 1922 at \$189,731,000, because no separate estimate was made in 1912.

Some West Virginia Operators May Make Individual Agreements With Coal Miners.

Morgantown, W. Va., February 20—[Special.]—That some of the operators identified with the Monongahela Coal Association may decline to subscribe to any agreement entered into as a result of the Jacksonville conference between the United Mine Workers and operators of the Ohio, Illinois, Indiana and Western Pennsylvania fields and may make an agreement individually with miners without regard to the union is indicated in the text of a resolution adopted a short time ago by the directors of the association, which read as follows:

"Whereas, a joint conference is to be held in Jacksonville, Florida, between the United Mine Workers and coal operators of Ohio, Indiana, Illinois and Pennsylvania, relative to an agreement covering wages and working conditions to obtain after April 1, 1924,

"Resolved, that it is the sense of this association that it take no position upon any question or issue discussed by, or raised at said conference, and that no person shall have power or authority to bind this association to any action taken at said conference or any adjourned meeting thereof."

The adoption of the resolution leaves members of the association free to act as they see fit. That has been made plain by Charles A. Goodwin of this city who offered the resolution which has been quoted. Mr. Goodwin states that "West Virginia operators were not invited to take part in the Jacksonville conference. The operators of Western Pennsylvania were not included in the conference but they were advised by Secretary Hoover to do so and are represented as I understand it. The Monongahela Coal Association, is not represented though I understand operators from this field are in attendance.

"It is thoroughly understood that the operators of the Monongahela Coal Association will not be bound by anything like the Cleveland agreement. Our situation is not similar to that of operators in the Ohio, Indiana, Illinois and some of the Western Pennsylvania fields. We ship our coal through non-union fields, where the labor cost of production is 95 cents a ton, as compared with something like \$1.30 to \$1.40 a ton. We have a non-union field on our northern border, non-union fields to the south and are compelled to compete directly and constantly with such fields in the matter of labor costs, and other charges. We are unalterably opposed to joining any agreement on terms fixed by Ohio, Indiana, and Illinois operators."

Construction Bids Soon on \$1,500,000 School Building for Baltimore.

Bids will be invited by the Board of Awards of Baltimore within the next few weeks for the erection of the \$1,500,000 Hilton street school building, for which plans have been prepared by Smith & May of Baltimore. The structure will be three stories, fireproof, with concrete floors, slate and fireproof slag roof, metal doors, ventilators, rolling partitions, wire glass, hollow and interior tile.

Details are now being handled by the Public Improvement Commission with offices in the Hearst Tower Building.

\$5,000,000 Rubber Plant Reported for Houston.

Houston, Tex.—It is announced here that the Mid-Continent Rubber Co., with offices in the Bankers Mortgage Building in this city, will erect a \$5,000,000 plant on the Houston ship channel. It is said the plant will be three stories and basement, 680 feet long, with proportionate width, and will manufacture automobile tires and rubber mechanical goods. One department is to be devoted to the manufacture of a coreless vacuum cup compression puncture closing inner tube. W. D. Horton is president of the Mid-Continent Rubber Co.

Experimental Grove to Test Varieties of Citrus Fruits—Other Development Work of International-Great Northern Railroad Outlined.

W. B. Cook, agricultural agent of the International-Great Northern Railroad Company, Houston, Tex., writes the MANUFACTURERS RECORD with reference to an experimental fruit grove which is under development along their lines.

"This is to be a small grove of a few acres only for the purpose of testing out varieties of citrus fruits. There is considerable interest in citrus in the territory along our line between San Antonio and Laredo, owing to the fact that citrus trees twenty years old are growing there and have never suffered injuries from freezing, notwithstanding that they have never been given frost protection. There is a possibility that within the next few years several thousand acres of citrus land may be developed in southwest Texas. The fruit that is being produced is from standard varieties and is of the finest flavor and highest color in their natural state on the trees, and does not require any process of bleaching. Several hundred acres will be planted in the counties of Webb, La Salle and Frio. The acreage this year is limited largely to the trees available for planting, as there is a great shortage in citrus stock.

"The International-Great Northern is fostering this work and is also doing much in the way of encouraging the organization of irrigation districts for the construction of reservoirs to impound the storm waters of the Nueces and Frio Rivers which will be utilized in irrigating more than 100,000 acres of land in this territory.

"At present the U. S. Geological Survey and the State Board of Water Engineers are surveying a reservoir site on the Nueces River which will impound water sufficient to irrigate 80,000 acres of the Nueces Valley in La Salle County. The formation of a district is advancing rapidly and we anticipate no trouble in putting over the proposition. A similar project is under way in the Frio River valley which will irrigate approximately 40,000 acres. The famous Medina Lake project fostered by English capital and subsequently thrown into bankruptcy on account of the war depleting finances of the promoters, also falls within this territory. This project, for several years in the hands of receivers, is now in process of reorganization and within a few months it will probably be open to settlement.

"None of these projects are land agent promotions, but are legitimate development work of the International-Great Northern Railroad. We hope in a few years to have this valuable territory settled with the best of fruit and truck growing farmers which will greatly increase our tonnage by the production of winter and early spring vegetables and citrus fruits, in addition to the staple crops of grain, sorghums, cotton and corn."

\$250,000 Apartment Hotel at West Palm Beach.

West Palm Beach, Fla.—A new apartment hotel to cost \$250,000, will be erected here by the Alhambra Investment Co., Phil Clarke, president. The building will be three stories, of Spanish design, and will contain 88 apartments. It will be served by two elevators. Harvey & Clarke are the architects and the construction will be in charge of E. H. Barto, both of West Palm Beach.

Hotel for St. Petersburg to Face Tampa Bay.

St. Petersburg, Fla.—A site at Fourth avenue and Beach Drive north, which faces Tampa Bay and was recently purchased by Mrs. A. G. Porter, will be used for the construction of a hotel to contain 125 rooms with private bath or shower. The building will be of concrete and steel construction and work will begin shortly.

Big Wool Clip Last Year.

Wool production last year totalled 223,610,000 pounds, the Department of Agriculture estimates. This was an increase of 1,050,000 pounds over 1922 production, due partly to a larger number of sheep and to an increase of three-tenths of a pound in the average fleece weight, which reached 7.3 pounds.

Texas leads the states as a wool producer with 19,700,000 pounds, Wyoming was next with 18,800,000 pounds, Montana 17,775,000 pounds, and Utah 17,210,000 pounds. Idaho produced 15,455,000 pounds, Ohio 14,313,000 pounds, California 14,181,000 pounds, and Oregon 13,200,000 pounds. In the leading producing states, wool is mostly a range product, except in Ohio where it is a product of the farm without the range.

The department's first estimate of the mohair clip is 8,651,000 pounds for 1923, as compared with 6,532,000 pounds in the census year 1919. Most of the mohair clip of 1923 was in Texas, for which state the estimate is 7,100,000 pounds.

To Establish and Operate Barge Line Between St. Louis and St. Paul and Minneapolis.

St. Louis, Mo.—It is announced here that the Standard Unit Navigation Co. of this city, Carl J. Baer, president, has made plans for immediately financing the construction and operation of barges on the upper Mississippi River between St. Louis and St. Paul and Minneapolis. Contracts for the barges, it is said, will be awarded within the next few weeks, the vessels to be of two sizes, 100 and 50 feet in length with a width of 16 feet, drawing but three feet of water when loaded.

It is planned to operate trains of barges, propelling them with small, light-draft power boats. Terminals at St. Louis and other cities are included in the plans of the company, these terminals to be so constructed that freight cars may be unloaded directly into the barges. Towboats for propelling the barges will be of several sizes so that motive power may be varied according to the size of the barge train.

Contract Awarded for \$2,000,000 Hospital—To Build First Unit This Year.

Hot Springs, Ark.—General contract has been awarded to Col. John R. Fordyce, Hot Springs, for the \$2,000,000 hospital to be erected here by the Baptist National Hospital Association, of which Dr. William Cooksey is vice president and general manager. It is hoped to build the first unit during 1924, this portion of the building to accommodate 150 beds. The completed structure will provide space for about 500 beds.

The building will be 8 stories, of reinforced concrete, steel and pressed brick, with concrete foundations, tile floors and concrete roof. It will be equipped with metal doors, vaults, vault lights, mail chutes, ventilators and steel sash and trim. There will be a hot water heating plant and a roof garden. Hubert T. McGee of Memphis, Tenn., is the architect.

Contract for Texarkana's \$600,000 Hotel.

Texarkana, Tex.—Contract has been awarded to the Stewart-McGehee Construction Co. of Little Rock, Ark., for the erection of the new \$600,000 hotel to be built here by the Texarkana Hotel Co. The building will be eight stories, of reinforced steel and concrete, terra cotta trim and will contain about 200 rooms. It will be equipped with a modern roof garden. The Otis Elevator Co. of New York, has been awarded contract for the installation of elevators. Mann & Stern of Little Rock, are the architects.

Coal Distribution and the Supply of Cars.

By L. S. EVANS, President, Eastern Coal and Export Corporation, Richmond, Va.

Your editorial in the MANUFACTURERS RECORD of November 22, occasioned by my article on assigned cars in "Sawards Journal" indicates that I failed to handle the subject with convincing clarity.

Before proceeding with an illustration which I hope may make my meaning and position clear, let us agree on fundamentals. You state them quite acceptably in your editorial.

1. The workings of the inexorable laws of economics should have free play.
2. Competition is the life of trade.
3. There should be no artificial interference with the development and operation of coal mines.

Food is a necessary of life more essential than fuel. There are people who use no fuel but none live without food.

In every nucleated community the indispensable groceries do business. Unhampered by artificial interference in development and operation and with competition unrestricted, their number, location, size, period of existence and general range of prices are determined by the workings of the inexorable laws of economics. Stated differently and more exactly to the point, under the free play of economic laws, the number, location, and general status of grocery stores are determined by the consumptive needs of the localities they serve.

The continuance of particular stores depends upon success in meeting competition. The inexorable law of "the survival of the fittest" operates with full force under the compulsion of adjustment to the consumptive needs of the communities. There is not so much as a hyphen between supply and demand. Every needed facility is at hand; proximity, streets, sidewalks, street cars, automobiles, telephones and in "Piggly Wiggly" stores, patrons help themselves from the shelves. Here, too, is the precarious "snowbird," the peddler who hawks his meager stock along the streets and alleys.

Now, let us put between consumers and stores, in lieu of other facilities, a delivery system, created, maintained and operated, not to satisfy consumptive needs, but to move goods offered by the stores.

The delivery company sells transportation. Its objective is the carriage of maximum tonnage with minimum equipment without loss of time. That objective would be realized with unimpaired service, if equipment were balanced with consumptive needs; but, because goods move from the stores they are considered the originators of traffic, the starting point of service, and hence for their use equipment is provided. As well say the soil originates water because we see it bubbling up in springs.

Stores do not empty their shelves before replenishing stock, hence their potential capacities exceed their customers' demands. Obviously, if the delivery company provided wagon capacity equal to store capacity it would be over-equipped. The adopted alternative is proration. Wagons are allotted according to the number of stores, and as stores vary in size and volume of business they are rated by capacities to determine the number of wagons each may receive and the hours or minutes of use.

The rate of increase in the number of stores may be greater than the growth of consumptive needs and greater than additions to equipment. The effect is more extended proration reducing the number of wagons and the time of use at each store.

To insure delivery on date received, customers' orders must be placed in ample time to have goods ready for loading when the wagons are placed. Since wagons must be kept busy throughout the day they are placed for loading at different hours. Afternoon placements prevent deliveries the same day and customers of such stores must buy

a day ahead. At any time any store may receive orders in excess of wagon space subjecting customers to the inconvenience of delay or the alternative of going elsewhere. A customer in urgent need of food for prompt delivery might be told by his grocer that no more orders could be taken that day, wagon space having been exceeded, whereupon the customer might go to several stores before placing his order and he might offer a higher price to induce acceptance. The practice of paying premiums would correspondingly raise the general price level at all stores. On certain days, Saturdays for instance, when buying was unusually heavy, competitive bidding up of prices might easily produce a run-away market.

The working of prices to higher levels would give the impression of excessive of "profiteering" earnings. The apparent condition would be a shortage of goods and high prices leading by easy logic to the conclusion that a need existed for more stores, and that money so invested would yield handsome returns. More stores would open, thinning the wagon supply proportionately but adding nothing to the total supply of deliverable goods. On the other hand, operating costs, which are related to volume of business, would steadily go up as operating time grew less and as stores increased in numbers. The idle time of labor and capital and certain inescapable expenses could be compensated for only by charging high prices. This condition would be economically unsound and we should have the paradox of buyers paying prices much too high, yielding profits much too small to the sellers, all because an increasing number of sellers divided the business of the relatively fixed number of consumers by virtue of a delivery system flexible as to proration between the sellers but inflexible as to the consumptive needs of the buyers.

The situation is further complicated by the unionizing of employees in some of the stores and of those of the delivery company. A strike closes the stores affected and the delivery company must make longer hauls from the nonunion stores which are largely concentrated in one district. Finally a sympathetic strike of wagon-driver helpers occurs. The politicians get busy and councilmen introduce ordinances for regulation of the grocery business. Sweeping powers are given to assign wagons by special order to take food to hospitals, orphanages, etc. The clever strategy of the unions compels the acceptance of their demands and the community is saved from disaster.

Hotels and other large consumers buy wagons for their own use. These privately-owned wagons are sent to stores, also owned by the same consumers, or to stores making concessions in prices to obtain their use. Objection is raised by the nonparticipating stores on the ground of discrimination and the unions join in the protest. The council committee of control is asked to rule that privately-owned (otherwise known as assigned) wagons shall be considered part of the delivery companies' equipment and prorated therewith.

In the meantime, a special committee composed of citizens with no practical knowledge of the business of conducting a grocery, investigates the stores, and writes many pages of reports. Its labors are summed up in the recommendation that the council committee be enlarged, the added members to take charge of and regulate the business by manipulation of the delivery system.

Our hypothetical operation of the grocery business having served its illustrative purposes, may here end.

It was some twelve years ago (1912-13) that the writer first stated that consumption being dominant to production

the distribution of coal cars should be regulated by consumptive needs. This suggestion appeared as the leading article in an issue of the "Black Diamond" at that time. Thus it appears to have antedated the Warfield Plan and the reference to pooling of cars in the MANUFACTURERS RECORD some seven years ago.

Be that as it may, the coal business will not function properly until the defects of car distribution are remedied. Consumptive needs, in a coal sense, cover the country and extend along the lines of all railroads. It is the writer's belief that all railroads should have coal cars to adequately protect and to efficiently and economically supply these needs.

Contract Let for Concrete Elevator of 500,000 Bushels Capacity.

Further details have been supplied the MANUFACTURERS RECORD by the Kimbell Milling Co. of Sherman, Tex., with reference to the new 500,000-bushel grain elevator which will be built at Fort Worth. The structure will be of concrete and the Jones, Hettlesater Construction Co., of Kansas City, Mo., is the designer and contractor, who will complete the job in its entirety and furnish all machinery used, this to be specified by the owner.

A particular feature of the elevator is its division into sixty-eight small bins, the largest holding only 15,000 bushels. This feature has been employed to preserve the identity of grain stored and to enable the elevator to load out for the storer exactly what he put in.

The elevator will be equipped with a Carter disc machine for taking oats out of wheat, a seed machine for cleaning sorghum and other field seeds, and two 2000-pound hopper scales. It will be built for the rapid handling of grain, having two elevator legs, each with a capacity of 8500 bushels.

Plan 300-Room Hotel to Cost \$1,650,000.

Pensacola, Fla.—Officials of the Pensacola Gulf Beach Co. have worked out details for the erection of a 300-room hotel and pavilion here to cost \$1,650,000. It is understood that the company has tentatively arranged with Eastern capitalists for the investment of \$1,300,000 in the enterprise, provided local capital to the amount of \$350,000 is invested. Plans for financing the project have been submitted to a committee of directors of the Chamber of Commerce for consideration.

Improvements as outlined would entail an expenditure of \$1,100,000 for the erection of the buildings; \$300,000 for furniture and furnishings, and \$250,000 for dancing and bathing pavilions, restaurant and beautification of grounds.

Bill Authorizing Issue of \$600,000 School Bonds.

Hagerstown, Md.—A bill recently passed by the legislature and approved by the governor, authorizes Washington County to issue \$600,000 of school bonds to erect school buildings in Hagerstown, Boonsboro, Clear Spring, Williamsport and other sections of the county. Plans for two and four-room buildings have been approved by the State Board of Education, but it is thought several months will elapse before plans for these schools, as well as those for other large towns, will be ready.

B. J. Grimes is the county superintendent and Charles A. Weagley is president of the board of education.

Staunton Votes \$700,000 Bonds for Water System.

City manager, W. F. Day of Staunton, Va., telegraphs the MANUFACTURERS RECORD that the election on a \$700,000 bond issue for waterworks carried by a four to one majority and that construction contracts will be awarded in the spring.

A Teacher's View as to Disobedience of Law Being Due to Untrained Children in the Home.

East Lake, Birmingham, Ala.

Editor Manufacturers Record:

Permit one of your enthusiastic readers (though a woman) to waft highest commendation of your warning on your November 8 copy front page "The Glory That Was Greece and the Grandeur That Was Rome," and the editorial within "Obedience to Law."

In all the world the hardest thing for the human mind is to teach itself to "obey," whether it be nature's laws of health, civic laws of government, school laws, or God's laws. In my lifetime contact with folk from mansion to hovel, city or country, mountain or valley, homes or jails, I have never found man, woman or child who had no regard for God's laws ever to have any respect for our civic laws.

The man or woman who hoots at and despises God's laws as "too narrow" I have found hooting at and despising our civil laws. And pre-eminently I have found that "obedience" harks back to the cradle and the mother's knee. The child taught there to know God's laws and to obey mother and father is the one who grows up to respect law, because it has learned "obedience" in its earliest years. And the child who grows up without that "obedience" from the beginning never learns it; these are the ones who land in reform schools, jails and penitentiaries, and who always declare that they have been put there unjustly.

And, as you compare the figures of murders in the United States for one year, 9,500, to those of England for one year, 63, who perished by poison, by the pistol, by the knife, or other deadly means; here is a picture of the difference in American parental control and English parental control which was so paramount under my own personal observation a week ago.

In an American home, where the father married an English girl, there were two little girls one four and one two. I was a guest at the dinner-table. The elder sat beside me between her mother and myself, and the younger to the other side of the mother. They behaved beautifully, waited until the busy mother helped their plates—as elegant little ladies, and ate without feeding aprons, and were a joy to the whole table.

At another home where both parents are American, college-bred, and the children the ages of the other two, nobody could talk to the mother; the elder child of four clawed at the mother constantly, saying "Mother, Mother." She had nothing to say or to request but simply demanded to be the "spokesman" no matter who was talking—and the mother permitted it. After supper the elder annoyed every one, tantalizing the younger sister into appeal to the mother from her persecutions. Failure to inculcate a "law" of obedience now, will lead to deliberate disdain of any law whatever as the years go by.

This is a typical case of lawless America in the nursery, which inevitably must reap lawless Americans, whether it be toward "speeding laws," prohibition laws, or all laws.

LIDA B. ROBERTSON.

Contracts for Government Hospital at Augusta.

Augusta, Ga.—The following contracts have been awarded by the United States Veterans Bureau, Washington, in connection with the enlargement of the government hospital here to provide 250 additional beds: For remodeling present main buildings, King Lumber Co., Charlottesville, Va., at \$78,000; heating and plumbing, J. C. Gleason, Augusta, \$133,546, and for electrical equipment, D. C. Barnett Co., St. Louis, \$15,090. Contracts for new buildings have not yet been awarded.

Larger Stocks of Coal Reported January 1.

On January 1, 1924, consumers of soft coal had on hand approximately 62,000,000 net tons of that fuel, states a joint report by the Bureau of the Census and the Geological Survey. The year just passed was one of practically uninterrupted accumulation of reserve stocks, and the inventory at its close revealed the following facts: Stocks on January 1, 1924, were 2,000,000 tons larger than on October 1, 1923, and about 6,000,000 tons larger than on September 1. In comparison with corresponding dates of preceding years, stocks on January 1, 1924, were 72 per cent larger than in 1923, 29 per cent larger than in 1922, 35 per cent larger than in 1921, and even exceeded those on January 1, 1919, by 7 per cent. In fact on only two dates for which stock records are available has the present supply been exceeded—Armistice Day, 1918, and April 1, 1922.

In the estimate, which is based on reports from a selected list of about 5000 consumers, no account has been taken of coal in the bins of householders, concerns which no statistics are available, nor steamship fuel, nor the tonnage on the Lake docks, which item is classed as coal transit.

In addition to the quantity estimated as in storage piles of actual consumers, the following quantities are known to have been in transit on January 1: On the commercial docks of Lakes Superior and Michigan, 7,800,000 tons; in storage at the mines or at intermediate points, 390,000 tons; unbilled loads at mines or enroute to consuming centers, 790,000 tons.

Retail dealers' stocks of anthracite increased during the last three months of 1923, and their total supply on January 1 was about 60 per cent more than on October 1. Reports from the docks on Lake Superior and Lake Michigan that handle anthracite showed a total of 513,000 tons on January 1.

Contract for Methodist Protestant College Dormitories—To Cost About \$235,000.

High Point, N. C.—Contract has been awarded to R. K. Stewart & Son of this city for the construction of two dormitories for Methodist Protestant College here. The cost of the buildings has not been announced, but it is understood that the contract price which includes electrical work, plumbing and heating in addition to the general construction, is about \$235,000.

The buildings will be 62 by 35 feet each, two stories high, one to contain 107 rooms for boys and the other 66 rooms for girls. Herbert B. Hunter of High Point is the architect.

Apartment at Washington to Cost \$1,500,000.

Washington, D. C.—The new Annapolis apartment building which is being erected here by Harry Wardman and Thomas P. Bones, both of Washington, will cost about \$1,500,000. It will be eleven stories with two basements, of stone, brick and reinforced concrete construction, the upper ten floors to contain 370 apartments, a total of 800 rooms and 370 baths. The first floor and first basement will be divided into 15 stores. Wardman & Waggaman are the architects, and the Wardman Construction Co., general contractor, both of Washington.

Extending Telephone Service in West Virginia.

Charleston, W. Va., February 22—[Special.]—W. T. Williamson of this city, vice-president of the Chesapeake & Potomac Telephone Co. of West Virginia, has announced extension of telephone service in Williamson district, to include offices at Burch and Kermit which will cost about \$40,000, and additional plant facilities in Williamson proper to cost \$35,000. It is proposed to establish central offices early in the summer at Burch and Kermit and plans for the installations are now under way.

Building Galvanizing Plant at Bessemer.

Bessemer, Ala.—The Bessemer Galvanizing Works, with its principal office in Birmingham, is building a galvanizing plant here, the engineering, designing and construction work being carried out by the company's own organization. Most of the material and machinery for the plant has been purchased, including a crane and hoist from the Shepard Electric Crane & Hoist Co., Montour Falls, N. Y., and a pyrometer from the Brown Instrument Co. of Philadelphia.

The Nashville Bridge Co. of Nashville, Tenn., supplied the steel frame work for the building and has constructed a 30-foot kettle. Zinc roofing has been purchased from the American Zinc Products Co. of Greencastle, Ind., and oil burning equipment from Tate-Jones & Co., Inc., of Pittsburgh, Pa. Brick, piping, sewer pipe, tanks, lumber, cement, concrete materials and miscellaneous hardware are being purchased locally.

Officers of the Bessemer Galvanizing Works are: A. J. Dyer, president; H. L. Badham, vice-president, and W. M. Clark, manager.

Gas Plant Sold—Improvements to Follow.

West Palm Beach, Fla.—The local gas plant with all its properties including land, building and equipment, has been purchased by Ralph B. Wagner who announces that he will expend \$75,000 for improvements, changing the present distribution system into a high-pressure system and installing individual meters. A new steel building will be erected at the plant and generating, condensing and other equipment installed.

A company to be known as the Palm Beach Gas Co. will be organized to operate and it is planned to extend gas mains to Palm Beach during the summer of 1925. Eventually the high pressure lines will be carried as far as Lake Worth.

The new company will lease offices from O. P. Gruner who will erect a building on Clematis avenue for this purpose.

To Build \$200,000 Theater at Bluefield.

Bluefield, W. Va.—A corporation composed of Charles A. Midleburg of Charleston; A. B. Hyman and F. Midleburg of Huntington; Hyman Bank and Louis Shore of Williamson, and George Brown of Bluefield, has purchased a site here for the erection of a \$200,000 theater. Tentative plans call for a 3-story building on Federal street, 20 by 100 feet, the ground floor to be used as a lobby for the theater which will be erected on a site in the rear, 84 by 120 feet. The theater will have a seating capacity of 2000. The second and third floors of the Federal street building will be devoted to offices.

\$300,000 in Extensions to Stove Plant.

Cleveland, Tenn.—Notable extensions to its plant which will involve an expenditure of about \$300,000 this year, are being made by the Hardwick Stove Co. of this city. Foundation plans for an addition to the molding room are being staked off, the structure to be of brick and steel, 80 by 230 feet. The Austin Co. of Cleveland, Ohio, is the contractor and the addition will cost about \$75,000.

New mounting rooms are also being constructed by the Austin Co., this addition being 60 by 120 feet, three stories. It is the purpose of the company to extend the addition during the year to a total length of 600 feet.

Campaign for \$450,000 Hotel at Martinsburg.

Martinsburg, W. Va.—Arrangements have been made by a citizens committee with the Hockenbury System, Inc. of Harrisburg, Pa. to conduct a financial campaign for raising \$450,000 to build a hotel here. Fred P. Spillman is chairman of a committee handling details.

Facts in Iron and Steel Trade All on Right Side—Steady Buying Brings Continued Improvement.

The Matthew Addy Company.

Cincinnati, O., February 18.

Editor Manufacturers Record:

The year began with a mild optimism in the iron and steel trade. There was a very qualified feeling of hopefulness. But the farther we get in the year the better things look. Ever since the year began there has been a very steady buying movement—a buying movement which has placed an immense amount of tonnage on furnace and steel mill books—and has tremendously changed the entire statistical situation. Prices have had an advance and the increase in prices has not only been maintained but there are indications of further advances.

Last year there was a concerted movement on the part of producers to put things up. The market was given a Cone test. It was only psychological. Everybody was beating the big drum—and helping the thing along. But along about the end of May it was apparent production had been extended beyond the point of consumption. We are now using all that is being produced and a little more, so that the holdover surplus from last year is in process of liquidation.

But business this year is not on any boom basis. Nobody is beating the big drum. The orders that are being placed are for material that is actually needed. Demand is on the solid foundation of reality. There is nothing speculative about it. And all the facts in the situation are on the right side and not on the wrong side.

JAMES A. GREEN, President.

Concentration Tests of Alabama Gray Ores.

Birmingham, Ala., February 18—[Special.]—Looking to the beneficiation of the grade of ore and improving the availability of the product for pig iron making and other purposes, the Southern experiment station of the United States Bureau of Mines, operated under the Department of the Interior, is this week taking 10 tons from the gray ore beds in Talladega and adjacent counties to Tuscaloosa, where the station is located, and within a few weeks will make a report thereon.

Thousands of acres of the gray ore are to be found in Talladega and adjacent counties, in the belief of government authorities. Dr. W. R. Crane is taking the 10 tons of the ore to Tuscaloosa and a thorough investigation will be given. Inasmuch as there is a large body of this ore and it can be gotten with comparative ease, the prospects are bright for a development that will prove most profitable. Experts in the past have made investigations and have reported its properties of high value.

"I feel sure that we will be able to show that the Alabama gray ore is of great value," said Dr. Crane. "There is much in the way it is gotten to the furnaces, clean and otherwise prepared. Some of our best red and brown ores must be freed of impurities. With the 10 tons I propose taking to Tuscaloosa we will be able to render a full report as to the availability of the product. At the start I am confident that the state will in the course of time attract attention because of these gray ore possessions."

To Fight Three Year-Fire in Coal Mine.

Charleston, W. Va.—Plans are being carried out by the state mine department of West Virginia, of which R. M. Lambdie is chief, to extinguish a three-year old fire in a coal mine in Monongahela County, which is said to threaten the destruction of several thousand acres of coal lands. It is understood that the mine will be flooded after walls have been built across the openings into adjoining mines. Contemplated plans for extinguishing the fire, it is said, will involve an expenditure of \$70,000.

Alabama Coal and Iron Ore Lands Reported Acquired by Scullin Interests—Company Said to Plan Expenditure of \$25,000,000 for Development.

Guntersville, Ala.—The acquisition by purchase and option of 41,000 acres of coal and iron ore land in the Raccoon Mountains of northeast Alabama, by Harry Scullin, president of the Scullin Steel Co. of St. Louis, and associates, is reported here. The property is located near Guntersville and its development, it is said, will mean the expenditure of about \$25,000,000 including the construction of towboats and barges to transport the iron ore and coal, and for the construction of blast furnaces at St. Louis.

It is said to be the purpose of the purchasers, with the completion of Muscle Shoals dam, to transport ore and coal by barges from Guntersville via the Tennessee River to Paducah, thence by the Ohio River to the Mississippi River and down the Mississippi to St. Louis. Until the dam is completed, it is stated that ore and coal will be hauled by rail from Guntersville to Florence, a distance of 75 miles, for shipment by barges.

Important Development in Cast Iron Pipe Making May Bring Extensive Readjustments.

Birmingham, Ala., February 25—[Special.]—Important developments in the art of cast iron pipe making are expected in 1924, is a statement emanating from one of the large pressure pipe companies of the Birmingham district. Improvement of manufacturing methods made much progress in 1923; continues the statement, but except for the perfection of the DeLavaud method of centrifugal casting, the research activities that have been going on for several years did not reach the point at which manufacturers were willing to make detailed public announcements. It now appears, however, that the experimental stages of other methods are about complete and that before another year is ended there will be operating on a commercial basis new methods of production that many believe will revolutionize the industry.

How seriously such developments may affect the industry of course can only be a matter of conjecture at this time. The mortality rate in the cast iron pipe business for the past quarter of a century has been very high, something like seventy-five per cent. The production, or possible production of cast iron pipe based on foundry capacity, during this time has exceeded the demand, except for the past two years. During the war, this country got badly behind with water and gas installations because government war regulations restricted pipe making and consumption in many ways. The volume of business during the past two or three years therefore has been larger than ever before to make up for these delayed installations.

Some of those most closely connected with the industry, however, feel some concern for the future. To the "normal" high rate of failure which the industry has experienced in the past, now probably will be added the difficulty of adjusting foundries to entirely new methods of production. In a general way, this will mean, in all probability, the amortization of existing pipe making equipment, in which has been invested millions of dollars. Of course, the improved methods that seem about to materialize should be of tremendous benefit to the users of cast iron pipe. They have been conceived and developed by the industry itself with this in view. It is only frank to state, however, that when these ideas were first conceived, few connected with the pipe business fully realized what the necessary readjustments would cost the industry nor how serious in some cases the resulting problems would be.

THE IRON AND STEEL SITUATION

Fabricated Steel Demand Suggests Trend Toward More Activity in Erection of Large Buildings.

Pittsburgh, Pa., February 25—[Special.]—Lettings of fabricated steel contracts in January represented 72 per cent of the fabricating shop capacity, against 80 per cent in December and 73 per cent in January a year ago. The comparison of the single month is unfavorable, but a comparison covering three months is more favorable, and this shows an average of 69 per cent for the three months ending with January, against only 61 per cent for the three months ending with January a year ago. As contracts for fabricated steel are let long in advance of actual construction work, the figures would suggest a trend in the direction of there being more building activity, in large structures, this year than there were last.

Considering car orders lately placed and business now under negotiation, freight car buying is showing more activity than was reported in December and January, although there was a fair run of orders in those months. The New York Central is buying cars up to a possible 17,000, while the Pennsylvania Railroad's inquiries cover 11,000 cars.

Buying of finished steel products by jobbers and manufacturing consumers has, on the whole, fallen off slightly in the past week or ten days. The period is too short to make a showing representative of a general trend, but the steel market is being watched closely for the reason that the mills are by no means booked far ahead, except in rails and tin plates, and it would not take long for a change in the rate of buying to affect mill operations. A year ago the mills had much momentum and were able to run well for months while the current buying was at a level well below the current shipments.

There are no adverse developments relating directly to the consumption of steel, but the market has been losing two stimuli it had recently, and is subject to two adverse sentimental influences.

In the sharp recovery in steel buying late in December and in January there was the stimulus of revived confidence in the maintenance of steel prices, there having previously been much doubt. Now, while in the main prices are firm, with other lines at least steady, the market as a whole is no firmer than two or three weeks ago. Another stimulus, felt recently, was a disposition on the part of buyers to replenish stocks, and replenishment does not take long, with mills shipping at such high rates as have been seen since the first of the year.

Adverse sentimental influences are the Teapot Dome scandal and the decline in Wall Street. While the financial writers call the latter a result of the former, the average steel buyer is impressed by each separately and thus there is a double influence.

Settlement of the union bituminous coal mine wage scale for three years, and removal of the possibility of a strike or suspension April 1 is not an adverse influence in the steel market. While some steel salesmen had been using the argument of a coal strike, the trade at large was indisposed to attribute any of the steel buying of December and January to a desire to anticipate a coal strike. The steel mills would have been able to operate.

There may have been a slight increase in steel mill operations since the first of the month, but there has been no material change. The production of steel is very high indeed, the present steel ingot producing rate of nearly if not quite 45,000,000 tons a year being more than 25 per cent above the rate in December and 30 per cent above the average rate in the five post-war years 1919 to 1923 inclusive, while it is

scarcely 10 per cent below the record high rate of all time, reached in April of last year and sustained for only a few weeks.

Connellsville coke does not show a clearly defined position. Spot furnace coke is scarce, but this is ascribed to temporary absorption of the slight excess of production over regular contract requirements. A few weeks ago the outlook was that second quarter furnace coke ought to bring an advance, on the chance that a bituminous coal strike would affect the market for Connellsville coal and coke, but several second quarter contracts were then made at \$4.25 whereas now, with the coal matter settled, the latest reports are of two or three contracts having been closed at \$4.50.

The local pig iron market is in poor condition, as are the pig iron markets in several districts. Consumers have been quite apathetic for some time past. They are taking deliveries very well on old contracts but show little interest in covering for second quarter. The recent advance of \$1 a ton in asking prices of valley furnaces has definitely gone, not having been supported by sales. The foundry iron market is disturbed by widespread offerings of Buffalo iron at \$22, furnace, this offering unusual competition to valley and western Pennsylvania furnaces, while it also affects eastern Pennsylvania furnaces. The valley market is quotable at about \$23 to \$23.50 on Bessemer, \$22 to \$22.50 on basic and \$23 to \$23.50 on foundry, with \$1.76 freight to Pittsburgh.

Sales Above the Make at Birmingham—Quotations Continue Strong.

Birmingham, Ala., February 25—[Special.]—The iron and steel market in the Birmingham district continues strong, the sales more than equal to the make and deliveries from two to three and half months ahead. Quotations maintained the strong position taken week before last, when smaller furnace interests began quoting and selling at \$24 per ton, No. 2 foundry, and the larger producers withdrew at under \$23. The sales during the past week have been less active than they were a few weeks ago but the make right along has been sold.

At the close of the past week there were 15 blast furnaces on foundry iron while 9 were making basic iron. Two blast furnaces are now in shape for the torch while a third will be ready within the next two weeks. One is scheduled to resume operations during the first or second week in March and the other two will be put into commission when the market warrants or when indications are strong that there will be continued buying of iron.

The co-operation on the part of the railroads makes it possible for prompt delivery, locally and elsewhere. The local consumers have been buying more freely, indicating a better feeling. Soil pipe makers have been buying for needs a little longer off than those of the immediate future. The hand-to-mouth buying lately has been with the smaller foundries. The pressure pipe makers, who are getting in lettings every week, expect activity through the better portion of this year. A considerable tonnage of iron is required by these interests.

The production of pig iron in Alabama is around 225,000 tons monthly, and in addition to this it has been necessary during the past three or four months to take some iron from the surplus stock on yards. Within another 30 to 60 days the minimum pile in months will be noted on yards.

The steel mills of the Birmingham district are moving along splendidly, demand for shapes being good and consumers asking delivery. Several departments at steel works of the district are operating on full time and are shipping

the product as rapidly as it is being manufactured, noticeably, rail, tie plates, wire and nail, and warehouses are not carrying much of this stock. The steel fabricating shops are busy. The Virginia Bridge and Iron Company is looking for the specifications for the steel to be used in the developments of the Southern Railway shops at North Birmingham, as announced heretofore. The Ingalls Iron Works Company is also working on several contracts for fabricated steel with prospects of considerable business in the future.

Building operations in Birmingham show a material increase. The activity in building lines means activity in iron and steel. Tentative plans include a library building, a large hotel, two office buildings, a court house and jail, several schools, and a business structure. Plans have been adopted and contract let for two Sunday School room buildings of large size.

All four cement plants in the district are adding to their activity, as demand for the product is growing steadily. Some very large requirements are in sight. Developments under way now in Birmingham will require more than 100,000 barrels of cement, and for the port of Mobile work several hundred thousand barrels will be required. The Muscle Shoals work is using no small amount of cement manufactured in Alabama.

The clay products manufacturing plants of this state are also producing steadily, brick, fireproof material, sewer and septic tank material.

Coal car loadings show a weekly production in Alabama of 375,000 tons. The greatest production was in 1917 with 416,000 tons credited for a week. It is possible now in this district to produce 500,000 tons. But little comment is made on the three-years contract settlement between the coal operators in the central competitive bituminous coal fields, including Illinois, Ohio, Indiana, Pennsylvania and Kentucky, with the union. It is not believed there will be any opening offered in this district for much, if any at all, of the labor that is to be eliminated under the plans of the United Mine Workers of America in the central fields. A survey shows sufficient labor in this district now. There is a good feeling noted between the interests here. The labor and the employers are apparently getting along well, and to take a chance would not be profitable.

The scrap iron and steel market is showing slight improvement. The quotations have undergone no readjustment lately. Heavy melting steel has not shown any activity as to price in several weeks. No 1 cast and stove plate are the top notches in demand.

The coke demand is a little more active but quotations make no better showing, bee-hive foundry coke being quoted at \$5.50 to \$6.50 and the by-product foundry coke at \$5 to \$6.50.

Pig iron and iron and steel scrap quotations follow:

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$23.00 to \$24.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$23.50 to \$24.50; iron of 2.75 to 3.25 per cent silicon, \$24.00 to \$25.00; iron of 3.25 to 3.75 per cent silicon, \$24.50 to \$25.50; iron of 3.75 to 4.25 per cent silicon, \$25.00 to \$26.00; charcoal iron, f. o. b. furnaces, \$33.00 to \$34.00.

OLD MATERIAL.

Old steel axles	\$19.00 to \$20.00
Old iron axles	21.00 to 21.50
Old steel rails	12.00 to 13.00
Heavy melting steel	14.00 to 15.00
No. 1 cast	20.00 to 20.50
Stove plate	16.50 to 17.00
No. 1 R. R. wrought	12.00 to 13.00
Old car wheels	16.00 to 17.00
Old tramcar wheels	17.00 to 18.00
Machine shop turnings	7.00 to 9.00
Cast iron borings	9.00 to 10.00
Cast iron borings (Chem.)	15.00 to 16.00

Preinct No. 1, Austin County, Texas, is considering an election on a \$450,000 bond issue to build roads. Added to state and federal aid funds this would give the county a total of \$887,000 for roads.

RAILROADS

Illinois Central's Big Cutoff Finally Approved.

The Interstate Commerce Commission has given final approval to the proposed cutoff line of the Illinois Central Railroad from Edgewood, Ill., to Fulton, Ky., 170 miles, it having reaffirmed its decision of August 3 last authorizing the construction, which is to be done by subsidiary companies, viz. the Southern Illinois & Kentucky Railroad Co. and the Chicago, St. Louis & New Orleans Railroad Co. When it is completed the line will be turned over to the Illinois Central for operation. After the decision last August the matter was reheard to allow those who had opposed the plan to present additional evidence, which it appears, has been without avail. Construction is expected to begin soon, practically all of the rights of way having been secured and the engineering department of the railroad having completed all preliminaries.

By the new route the distance from Chicago to New Orleans will be reduced by 22 miles and at the same time a line of easier curves and grades will be obtained from Edgewood to Fulton, permitting the hauling of heavier freight trains. About 50 miles of the new line will be in Kentucky. The Ohio River will be crossed at the Metropolis Bridge, about 12 miles from Paducah, Ky., and the nearest point to that city on the new route will be about three miles away.

Some Fine Pictures of Scenes South.

"The Sunny South" is a fine, artistically made booklet issued by the Southern Railway System, presenting reproductions of many interesting drawings by E. H. Suydam, illustrating scenes in prominent cities and popular resorts in Southern states. Both the mountains and the sea are represented in these pictures which have been drawn with a skillful pencil and they are of such general interest as to attract and hold the attention immediately. They are done in black and white on a creamy background and have the appearance of etchings. In a moment they carry the imagination from the beautiful highlands of the Appalachian region to the charming sands of the Florida coast. The urban views are none the less entertaining.

Income 1923 of Two Roads South.

A preliminary statement of income of the Southern Railway Co. for 1923 makes comparisons with 1922 as follows: Gross, 1923, \$150,467,985; 1922, \$128,489,847; operating expenses, 1923, \$112,414,259; 1922, \$97,170,133; net operating income after taxes, rents, etc., 1923, \$28,123,136; 1922, \$20,472,778; total income, 1923, \$31,712,303; 1922, \$24,956,245; net income, 1923, \$15,136,998; 1922, \$8,823,796; surplus after dividends on preferred stock, \$12,136,998; 1922, \$7,323,796.

A preliminary statement of the Georgia Southern & Florida Railway for 1923 shows total revenue, 1923, \$5,319,344; 1922, \$4,518,016; total expenses, 1923, \$4,102,187; 1922, \$3,744,211; net operating income, 1923, \$633,021; 1922, \$394,539.

Mississippian Railway Builds 9 Miles.

The Mississippian Railway Co., which is building a line of 25 miles from Amory to Fulton, Miss., has completed and put in operation 9 miles of the line from Amory as far as Smithville, and it is expected that the rest of it will be completed in about three months. Connection with the St. Louis-San Francisco Railroad's line to Birmingham is made at Amory, and Fulton which is the county seat of Itawamba County and now without railroad facilities, is northeast thereof. John T. Cochrane of Mobile is president of the new railroad; he is also president of the Alabama, Tennessee & Northern Railroad.

\$5,000,000 to \$6,000,000 to Be Expended on Georgia Central Railway.

Birmingham, Ala., February 25—[Special.]—With plans worked out looking to the lowering of grades, elimination of curves, and extension of sidings, L. A. Downs, president of the Central of Georgia Railway will recommend to the board of directors shortly, a schedule of \$5,000,000 to \$6,000,000 for improvements between Birmingham, Ala., and Columbus, Ga. The plans call for some relocation of the roadway. The work to be first undertaken will be on the most troublesome grades while the longer grades will be cut down as quickly as possible. The plans drawn provide for a line that will make it possible to haul trains at least 30 per cent heavier.

The Central of Georgia and the Illinois Central are working in close harmony and, in addition to the extraordinary passenger business that has been worked up between Chicago, and St. Louis, and Savannah, and Florida points, a greater freight traffic is anticipated.

The reports which come here from an authoritative source are to the effect that President Downs, who was in Birmingham recently, feels confident that his recommendations will be allowed so that the engineers who drew the plans can begin work at an early date on the projected improvements.

Going Ahead With the Seaboard's New Line in Florida.

W. R. Bonsal, of Charleston, S. C., president of the Jefferson Construction Co., of that city which has the contract for building the proposed Florida Western & Northern Railway, is quoted in a report from Sebring, Fla., as saying to the local railroad committee that actual construction operations would begin immediately; that work will be started in not less than six different places simultaneously and it will be pushed in both directions. Construction at Sebring will go from there to Bassenger. A large dragline machine for grading has already been received at Sebring and preparations are being made to put it in use without delay.

Other points to be reached by the road are Coleman, where it will connect with the Seaboard Air Line—for which it will be constructed—Polk City, Winter Haven, Avon Park, Okechobee City, etc. Contracts for ties have been let to local parties and efforts to secure laborers for preparing the right of way are also being made locally along the route. It is said that steel rails of 100 pounds per yard will be laid to put the road at once in the best condition for through fast service.

\$500,000 Warehouse to Be Built at Dallas.

The Missouri-Kansas-Texas Railway Co. has let a contract to the Bellows-Maclay Construction Co., of Dallas, Tex., for the erection of an eight story warehouse in that city at a cost of about \$500,000. The building will occupy the site of the old passenger station and when finished it will be leased to the Interstate Forwarding Company, W. I. Ford, president. It will be of reinforced concrete and steel construction and will measure 100 by 200 feet. There will be a total of 171,000 square feet of floor space. Two large freight elevators and one passenger elevator will be installed. Trackage will accommodate ten cars simultaneously. The walls will be of sufficient strength to permit increasing the height of the building when that may become necessary. Special facilities

will be provided for the storage of valuable articles such as pianos, handsome rugs, jewelry, silverware, etc. Plans for the building have been prepared by A. L. Sparks, architect, St. Louis, and the work will be supervised by Frank Ringer, chief engineer of the railroad company, of the same city.

New Equipment.

Car and engine inquiries recently reported in the market include 100 passenger locomotives for the New York Central Railroad, 4 locomotives for the International-Great Northern, 5000 freight cars for the Santa Fe System in addition to order for 4000 cars already placed, 1200 gondola cars and 750 hopper cars for the Southern Railway, 1000 freight cars for the Missouri Pacific Railroad, 2000 freight cars for the Norfolk & Western Railway, 30 locomotives for the Seaboard Air Line, 25 for the Atlantic Coast Line, 25 for the Florida East Coast Railway, 10 for the Illinois Central Railroad and 10 for the Rock Island Lines.

Norfolk & Western Railway has placed orders for 2000 more hopper cars of 70 tons capacity, viz., 1000 with the Bethlehem Steel Corporation and 1000 with the Standard Steel Car Co. Total ordered 6000.

Santa Fe System has ordered 1000 box cars and 500 automobile cars from the Pullman Company and 500 gondola cars from the American Car & Foundry Co.

Augusta-Aiken & Electric Corporation has just put in use 15 street cars of the one-man type which were built by the Perley A. Thomas Car Works, High Point, N. C.

High Point, Thomasville & Denton Railway, it is reported, will soon be in the market for 2 new locomotives.

New York Central has ordered 35 switching engines from the Lima Locomotive Works and 34 from the American Locomotive Co.

Freight Movement Greater Than at This Time Last Year.

Loading of revenue freight on the railroads continues to keep ahead of the loadings at this time last year, when previous records were being broken, and they also indicate the establishment of more new records soon, according to reports filed by the carriers with the American Railway Association. Total loadings for the week ended February 9 were 906,489 cars, an increase of more than 57,000 cars over the corresponding week of last year and over 128,000 cars more than the same week in 1922. Owing to severe weather in some parts of the country the figures for the week showed a decrease of over 23,000 cars as compared with the week immediately preceding it. Thus far this year there have been nearly 5,200,000 cars loaded, the total for the same period of last year being something over 5,088,000.

It is expected that the movement of fertilizer in the South this year will exceed that of last year and there are plenty of cars available for it if the movement occurs early in the season. Efforts are being made to bring this about so as to avoid congestion and car shortages.

Southern Railway Will Install Signals and Telephones.

Atlanta, Ga.—To increase the capacity of its Atlanta-Birmingham line and provide for growing traffic, the Southern Railway System will immediately install the automatic electric block signal system over this entire line and also will construct two telephone circuits so as to substitute the telephone for the telegraph for dispatching trains between Atlanta and Birmingham. The signal system will consist of 202 masts, carrying signals of the new color-light type, located at intervals of 1½ miles. The signals will protect trains against collisions and will also warn engineers of a broken rail, an open switch, or any other break in the line.

TEXTILE

Woolen Mills to Build Extension.

Cleveland, Tenn.—The construction of important extensions to the plant of the Cleveland Woolen Mills here has been started and it is planned to have the improvements completed by July 1, the cost to be about \$150,000. An addition to the main building will be 65 by 150 feet, four stories, of mill construction and equipped with automatic sprinklers. The first floor is designed to increase the capacity for finishing woolens, the second to provide space for a cafeteria, third to provide storage for trimmings and woolens for the tailoring department, and the fourth for a coat tailoring shop.

Plans call for dismantling the present dye house to make room for the proposed building, a new one-story dye house, 75 by 150 feet, of brick and steel, to be erected at the extreme south end of the mill. Construction has already started on a steam power plant which will be equipped with two 375-horse power boilers, a 700-horse power Westinghouse turbine engine and generators. A brick stack 150 feet high, 14 feet in diameter at the base and 6 feet at the top, will also be erected.

The work of construction and equipment will be handled by the company under the supervision of L. W. Slaughter. W. H. Sears of Chattanooga is the architect.

Construction Begun on Spinning Mill Addition.

Fingerville, S. C.—Construction has begun here on the proposed improvements and enlargement of the plant of the Fingerville Process Spinning Mill, Inc.

Plans provide for replacing the old spinning frames with new ones made by the Saco-Lowell Shops of Boston and Charlotte. A total of 10,000 spindles will be in place upon the completion of the installation of machinery, increasing the capacity of the plant about twenty per cent.

Machinery in the card room will be reconditioned and 36 Universal winding machines installed. New flooring will be laid throughout the plant, a new lighting system installed and dwellings for employees repaired. Lockwood, Greene & Co. of Boston and Atlanta, are the engineers in charge of improvements.

O-Cedar Mills to Expend \$100,000.

Covington, Tenn.—Improvements planned for the plant of the O-Cedar Mills, Inc. in South Covington will involve an expenditure of \$100,000, of which \$85,000 will be used for new machinery to manufacture a special line of yarns and napped cloth, and \$15,000 to repair dwellings for employees. The new equipment, it is said, will increase the production capacity of the mills from 32,000 pounds of cotton products per week to 50,000 pounds per week.

The company is a subsidiary of the Channell Chemical Co. of Chicago, and operates 6000 ring and 460 twisting spindles and 140 looms. It produces chevots, chambrays, ply yarns, skeins and tubes.

South Carolina Farmers to Fight Boll Weevil.

Columbia, S. C.—According to a statement by J. Clifton Rivers, state warehouse commissioner, South Carolina farmers are laying in a supply of calcium arsenate for the purpose of waging a hard fight against the boll weevil. Large farmers as well as small ones, are buying the product, much of it being shipped by the warehouse commissioner in one-drum lots, which is said to be an average supply for one and two-horse farmers.

Reports also indicate that South Carolina farmers are buying a great deal of fertilizer in an effort to beat the boll weevil by forcing the cotton crop to an early maturity.

Cotton Seed and Cotton Seed Products.

For the six months, August 1, 1923 to January 31, 1924, cotton oil mills received 2,975,144 tons of cotton seed. During this period 2,403,566 tons of seed was crushed, and the mills reported 577,693 tons on hand January 31. From August 1, 1922, to January 31, 1923, 3,020,934 tons of seed were received at mills, 2,501,720 tons crushed, and 527,777 tons reported on hand January 31, 1923.

From August 1, 1923 to January 31, 1924, crude oil amounting to 707,519,386 pounds was produced as compared with 759,779,684 pounds produced during the corresponding period of the previous season; 506,430,300 pounds of refined oil was produced as compared with 596,272,680 pounds during the first six months of the 1922-1923 season; 1,100,082 tons of cake and meal compared with 1,137,076 tons; and 485,712 bales of linters compared with 440,770 bales.

EXPORTS OF COTTON SEED PRODUCTS FOR SIX MONTHS ENDING JANUARY 31.

	1924.	1923.
Oil crude, pounds.....	15,730,246	15,908,150
Oil, refined, pounds.....	7,898,879	26,924,603
Cake and meal, tons.....	76,434	150,361
Linters, running bales.....	35,675	17,016

To Rebuild Cotton Mill Power Plant.

Greensboro, N. C., February 23—[Special.]—The Proximity Manufacturing Co. will rebuild the power plant at its cotton mill here, adding new boiler equipment, stokers and coal-handling equipment. It has purchased a 1000 k. w. extraction type turbo generator from the General Electric Co. of Schenectady, N. Y., and a condenser from the C. H. Wheeler Manufacturing Co. of Philadelphia. It will also install piping for steam usage in the dye plant.

In addition to these installations, the White Oak cotton mills of this company, which are also located here, will individualize part of the spinning now driven by group motors, forty-eight 7½-horse power motors manufactured by Allis-Chalmers Manufacturing Co., Milwaukee, having been purchased for this purpose.

J. E. Sirrine & Co. of Greenville, S. C., are the engineers.

Plan to Build 30,000-Spindle Weaving Mill.

Tallassee, Ala.—Plans are being drawn by J. E. Sirrine & Co., Greenville, S. C., for a 30,000-spindle weaving mill here for the Tallassee Mills owned by the Mt. Vernon-Woodberry Mills, Inc. of Baltimore. Provision will be made for a four-story main building of reinforced concrete, 367 by 144 feet, opener building, 80 by 100 feet, warehouses and mill village of 175 dwellings. Machinery will be motor driven and the product will be light duck and heavy sheetings. The present plant is equipped with 64,644 ring spindles and 1240 looms.

Southern Wholesale Drygoods Association.

Charlotte, N. C.—The thirteenth annual convention of the Southern Wholesale Drygoods Association will be held in this city from May 6 to May 9, inclusive. All Southern states and a few areas north of the Ohio River are included in the organization. Alfred H. Williams of Nashville, Tenn., is the president.

Textile Mill Notes.

E. A. Lee, cashier of the Citizens Bank & Trust Co., Pikeville, Tenn., is promoting plans for the construction of a hosiery mill at Pikeville.

The Andrews-Henninger Co., a new textile firm at Chapel Hill, N. C., has been incorporated with a capital stock of \$50,000, by S. W. Andrews, R. C. Andrews and John W. McCauley.

The Ellis County Hosiery Mill, Waxahachie, Tex., is reported as having twenty-five additional knitting machines installed. This added equipment, it is said, will increase the output of the plant to 250 dozen pairs of hose per day.

GOOD ROADS AND STREETS

A Florida County Votes \$650,000 of Bonds.

Bushnell, Fla.—Sumter County has voted a bond issue of \$650,000 to complete its system of hard roads. Three years ago the county voted \$750,000 and in 1922 \$135,000, all roads for which these funds were intended having been completed with the exception of a short link between Bushnell and Center Hill.

The new issue will be used to build the following: East and west of Oxford to Lake and Citrus counties; west of Wildwood to Citrus County; Coleman to Bamboo near Lake County line; Sumterville to outlet of Lake Panasoffkee; Bushnell to Weeds Landing in Citrus County; Bushnell via St. Catherine to Berdell on Hernando County line; completing state road No. 23; Tarrytown to Lake County line at Sloans Ridge; Center Hill to Sloans Ridge, and Center Hill to Norton's Crossing.

Santa Fe System Considering \$1,000,000 Bridge Over Canadian River in Texas.

Amarillo, Tex.—At a recent conference here between M. C. Blanchard of Amarillo, chief engineer of bridges and roadway of the western lines of the Atchison, Topeka & Santa Fe Railway System, with A. R. Mitchell of Chicago, also an engineer of the Santa Fe system, plans were considered for the construction of the proposed \$1,000,000 bridge over the Canadian River in Hemphill County, Texas.

According to tentative plans there will be sixteen new spans each 115 feet long, in addition to four spans now in use. It is believed the proposed elevation of the bridge will put it beyond danger of washouts. Construction, it is estimated, will require more than 200 men for a year.

\$7,700,000 in Florida Road Funds for 1924.

Tallahassee, Fla.—Figures compiled by the State Road Department indicate that funds for the department for 1924 will total \$7,691,815, and of this sum about one-third will be available for new road work during the year. It is estimated that work already contracted for will total \$4,952,362.

Proposed projects included in the budget will involve a total of 286 miles distributed throughout the state. Work now under construction on federal aid projects totals 126 miles, construction authorized but not started, 34 miles, and work under construction on state projects, 425 miles. Maintenance of roads included in the budget and roads heretofore built, involves about 880 miles.

Louisiana Wants Bids on 35 Miles.

Baton Rouge, La.—Bids will be received by the Louisiana Highway Commission at its office in this city until March 20 for the construction of two sections of the Winfield-Chestnut highway in Winn Parish, one of 7.41 miles and the other of 8.35 miles. The commission will also receive bids until the same date for building 7.92 miles in Grant Parish. In connection with this work, bids are invited for furnishing gravel for these projects.

For building 11.336 miles in Sabine Parish, the commission will receive bids until March 6, and also for furnishing washed or sand-clay gravel, or both, for this work.

Knox County, Texas, to Vote on \$250,000 Bonds.

Benjamin, Tex.—An election has been ordered for March 1 by the commissioners Court of Knox County on \$250,000 of bonds for the construction of roads in road district No. 4, in the eastern part of the county. The bonds are to be 30-year serial and bear interest at the rate of 5½ per cent.

Virginia Invites Bids on 47 Miles of Road and Number of Bridges—Proposals Received Until March 12.

Richmond, Va.—Bids will be received by the State Highway Commission here until March 12 for the construction of ten sections of road in the state, covering an aggregate of more than 47 miles, together with a number of bridges. The following roads are included: Four miles of bituminous macadam in Roanoke and Franklin counties; 5.1 miles of bituminous macadam in Franklin County; 5.4 miles of top soil in Campbell County and 5.2 miles of top soil in Lunenburg County.

There will also be 9 miles of grading and draining in Giles County; 5.1 miles of bituminous macadam in Mecklenburg County; 1.8 miles of concrete in Elizabeth County; 5 miles of concrete in Tazewell County; 3.3 miles of concrete in Princess Anne County, and 3.2 miles of concrete in Gloucester County.

The bridges will embrace a 112-foot reinforced concrete structure over Back Creek in Roanoke and Franklin counties; 85-foot steel truss bridge over Blackwater River in Franklin County; 65-foot reinforced concrete bridge over Couches Creek in Lunenburg County; two steel truss and reinforced concrete bridges and approaches over Craig Creek in Craig County, one of which will be 167 feet and the other 142 feet; 129-foot reinforced concrete bridge over Sinking Creek in Giles County, and a 37-foot reinforced concrete bridge over Butchers Creek in Mecklenburg County.

East Bernard River Bridge to Cost \$376,000.

Richmond, Tex.—Contracts have been awarded to the Missouri Valley Bridge & Iron Co. of Leavenworth, Kan., for the sub-structure, and to the Austin Bridge Co. of Dallas, for the superstructure of the new bridge which Fort Bend County will build over East Bernard River near this city at a cost of \$376,000.

The structure will be of the cantilever type, 528 feet, with two 80-foot suspended trusses and 465 feet of concrete pile trestle. There will be 348 feet of concrete paved approaches. Charles H. Kendall of Sugarland, Tex., is the engineer in charge.

Crain Highway Estimated to Cost \$1,250,000.

A report of the Maryland State Roads Commission estimates that the cost of the Crain highway into Southern Maryland will reach a total of \$1,250,000. This road was authorized by the legislature of 1922 at a cost of \$1,000,000, of which \$250,000 would be available each year for four years.

The road extends from Benfield in Anne Arundel County to a point on the present state road near Brandywine in Prince George County, a distance of 31.5 miles. The entire route has been surveyed and plans for the portion not under construction are nearing completion.

Two Districts Vote \$169,000 in Road Bonds.

Wayne, W. Va.—February 23—[Special.]—Voters of Stonewall and Grant districts of Wayne county have authorized the issuance of good road bonds to the extent of \$169,000, Stonewall district voting \$111,000, and Grant district, \$58,000. Four of the six districts in Wayne county have bonded themselves for better roads, Lincoln district in August, 1922, having voted \$150,000 and Union district in September, 1923, having voted \$194,000.

LUMBER AND BUILDING MATERIALS

Production Increases; Orders and Shipments Decrease.

Washington, February 21.—Reports received today from 390 of the chief commercial lumber mills of the country show that while production increased and shipments declined slightly for the week ending February 16 from the previous week, new business decreased noticeably. Compared with the corresponding week of 1923, there were large increases in production and shipments, but a considerable decrease in current orders or new business.

The unfilled order file of 271 Southern Pine and West Coast mills fell off 22,000,000 feet from the previous week. The 141 Southern Pine mills reported their unfilled order file at the end of last week as 303,064,193 feet against 320,047,419 for the week before; 130 West Coast mills gave their unfilled orders as 464,146,718 as against 469,610,635 a week earlier for 131 mills.

For all the 390 mills, shipments were 100 per cent and new business 86 per cent of actual production; for the Southern Pine mills these percentages were 98 and 77 respectively, and for the West Coast mills 92 and 85. The 366 mills having a normal production figure for the week, gave their actual production as 101 per cent of normal, shipments 100 per cent and orders 87 per cent thereof.

The following table compares the national lumber movement (reporting mills of seven regional associations) for the three weeks indicated:

Mills	Past Week 390	Corresponding Week 1923 377	Preceding Week 1924 (Revised) 385
Production	240,782,715	162,948,432	234,435,282
Shipments	240,537,485	200,797,210	246,724,571
Orders	206,971,209	243,336,301	237,512,679

The following figures compare the lumber movement for the first seven weeks of 1923 with the same period of 1924:

	Production	Shipments	Orders
1924	1,493,427,478	1,588,322,475	1,661,920,973
1923	1,326,346,207	1,636,090,768	1,869,682,232
1924 Increase	167,081,271		
1924 Decrease		47,768,293	207,761,259

Owing to the incomparability of its weekly orders (new business) report neither of the above tables includes mills

LUMBER MOVEMENT FOR SEVEN WEEKS, AND FOR WEEK ENDING FEBRUARY 16.

	Production		Shipments		Orders	
	1924	1923	1924	1923	1924	1923
Southern Pine Association:						
Total	507,005,488	487,937,876	559,658,011	568,645,012	560,349,984	679,040,107
Week (141 mills)	81,105,993	69,888,130	79,690,522	75,630,144	62,707,296	87,428,272
West Coast Lumbermen's Ass'n.:						
Total	681,073,886	567,777,405	670,658,849	702,261,401	685,108,140	784,257,735
Week (130 mills)	109,947,900	55,994,675	101,209,419	79,261,662	92,979,364	105,412,176
Western Pine Mfrs. Ass'n.:						
Total	113,254,000	82,718,000	168,436,000	163,361,000	195,150,000	173,200,000
Week (39 mills)	19,363,000	10,809,000	27,830,000	19,156,000	25,425,000	23,750,000
Calif. Redwood Ass'n.:						
Total	56,216,000	48,600,000	51,008,000	56,897,000	53,327,000	86,337,000
Week (15 mills)	9,182,000	7,821,000	8,398,000	8,292,000	7,275,000	8,829,000
North Carolina Pine Ass'n.:						
Total	45,565,004	51,265,826	48,574,415	57,673,955	59,509,849	62,855,390
Week (41 mills)	8,313,822	6,464,718	9,270,244	7,830,904	7,234,549	7,811,853
Northern Hemlock & Hardwood:						
(Softwood) Total	14,127,000	15,651,000	14,407,000	14,044,000	15,898,000	16,220,000
Week (16 mills)	1,465,000	1,996,000	2,266,000	2,442,000	1,362,000	2,090,000
Northern Pine Mfrs. Ass'n.:						
Total	44,948,100	50,590,100	54,182,500	53,838,400	65,193,000	50,976,000
Week (8 mills)	6,494,000	6,779,900	7,995,300	5,780,500	6,564,000	6,623,000
General Total for 7 Weeks:						
(Softwood)	1,462,189,478	1,304,540,207	1,566,924,475	1,616,720,768	1,634,535,973	1,852,886,232
Northern Hemlock & Hardwood:						
Hardwoods (7 weeks)	31,238,000	21,806,000	21,398,000	19,370,000	27,385,000	16,796,000
Calif. White & Sugar Pine Mfrs.:						
(7 weeks)	40,112,000	93,722,000
General Total for Week	240,782,715	162,948,423	240,537,485	200,797,210	206,971,209	243,336,301

Calif. White & Sugar Pine reports not included in totals, because "orders" not reported.

of the California White & Sugar Pine Association, of which 14 mills reported for last week a cut of 5,883,000 feet, shipments of 11,573,000, and orders 11,817,000. The reported cut represents 39 per cent of that in California pine region.

The West Coast Lumbermen's Association wires from Seattle that 130 mills manufactured 109,947,000 feet of lumber, sold 92,979,364 feet and shipped 101,209,419. Production for reporting mills was 23 per cent above normal. New business was 15 per cent below production, and shipments were 9 per cent above new business.

Heavier Shipments of North Carolina Pine.

The North Carolina Pine Association reports as follows on 34 mills for the week ending February 16:

	Total Feet
Orders	8,288,549
Shipments	10,000,266
Production	8,869,912
Normal Production	10,302,000

The orders were 17 per cent below shipments, 7 per cent below actual production and 20 per cent below normal production. Shipments were 13 per cent above actual production and 3 per cent below normal production. Actual production was 14 per cent below normal. The week shows a decrease in orders of 110,151 feet or 1 per cent.

Meeting of North Carolina Pine Association.

Norfolk, Va.—At the annual meeting of the North Carolina Pine Association in this city on March 27, a feature of the program will be an address by Captain Irving O'Hay at the banquet session and one by Judge James A. Emory of Washington, D. C. Frederick I. Cox of Washington and W. W. Schupner, secretary of the National-American Wholesale Lumber Dealers Association, will address the association at the day session.

Annual Convention of Hardwood Manufacturers.

Through its secretary-manager, J. M. Pritchard, the Hardwood Manufacturers Institute, with offices in Chicago, announces that its second annual convention will be held at Louisville, Ky., on May 8 and 9. The program will deal with subjects of interest to all branches of the industry and

members of the institute extend an invitation to other manufacturers, as well as to consumers and distributors of hardwoods to meet with them and discuss these problems.

Arrangements for hotel accommodations have been made by the Louisville Publicity and Convention League.

Decline in Southern Pine Movement.

The Southern Pine Association for the week ended February 15 reports as follows on 141 mills:

	Cars	Feet
Orders received during week.....	2,976	62,707,296
Orders on hand beginning of week.....	15,189	320,047,419
Total	18,165	382,754,715
Shipments during week.....	3,782	79,690,522
Orders on hand end of week.....	14,383	303,064,193

Production for the week was 81,105,993 feet. Shipments were 1,415,471 feet below production or 1.75 per cent. Orders were 18,398,697 feet or 22.68 per cent below production. Orders were 16,983,226 feet below shipments or 21.31 per cent. The week was 7.72 per cent or 6,781,095 feet below normal production. The decrease in orders on hand amounted to 16,983,226 feet or 5.31 per cent.

Commendations, Kicks and Comments

A Compliment We Are Proud Of.

P. N. COLEMAN, President, American Cross-Arm Company, Jacksonville, Fla.—We regard the MANUFACTURERS RECORD as the "South's Master Publication." It has helped very materially to broaden the minds of our entire executive force and we would not be without it.

How an Arkansas Banker Regards It.

CARL HOLLIS, Vice-President, Merchants & Planters Trust & Savings Bank, Warren, Ark.—The writer has been a constant reader of the MANUFACTURERS RECORD for a number of years and I would hate to think I could not get it. I, too, think it one of the most valuable publications for any banker to keep on his desk. I am of the opinion that this Journal is doing more for the development of the South than any other publication known.

The Farmer Is a Manufacturer, the Soil Is His Factory— The Raw Materials Are the Seed and the Fertilizers, and the Skill Required Is as Great as in Other Lines of Manufacturing.

E. C. WALDEN, Hiddenite, N. C., R. No. 2.—You will find enclosed \$3.50 for which please send me the MANUFACTURERS RECORD for six months.

I am not a manufacturer unless you consider farm products manufactured goods. However, I consider the RECORD as good a farm journal as a manufacturers journal.

The Note of Authority.

REV. R. E. BRICKHOUSE, Darlington Heights, Va.—I am enclosing check to advance my subscription to the MANUFACTURERS RECORD. I appreciate very much the discount allowed to ministers.

I am glad indeed that I have become acquainted with this great weekly. When I subscribed to the MANUFACTURERS RECORD, I wondered if I could afford to take it regularly and now that I have read it for twelve months I am convinced that I cannot afford to be without it. The RECORD is superb in its field, and its note of authority is much needed in an age like this. May its influence this year surpass that of preceding years.

Loyal to the South and Confident of Its Future.

T. L. BAILEY, Editor, The Cochran Journal, Cochran, Ga.—We believe you publish the very best trade journal in America. We will go further than that, we sincerely think that your editorial page is unexcelled by any other paper in the United States, as far as it is our humble opinion to judge. Your intense loyalty to the South; your unbounded confidence in her material welfare and future success, should be a source of inspiration to our people and should merit their confidence and patronage.

We have been reading an occasional copy of the RECORD, and it gave us such confidence and inspiration in regard to the wonderful possibilities of our great South, that we decided we could not get along without it.

long time to continue their great work and with sincere wishes for We hope the RECORD and your great editor will be spared for a continued success and usefulness to our great country, we are, etc.

We Wish So Too, and With All Business Men Generally.

W. A. HUGHES, Perkins-Timberlake Company, Decatur, Tex.—Enclosed you will find my check for \$6.50 for which send me the RECORD for another year. As an official of our local Chamber of Commerce, I could hardly get along without it; as manager of a dry goods establishment I find it worth many times the price of the magazine; as a citizen of the sunny South I recall two articles alone that I prize more than two or three times the price of the RECORD, viz., "Obedience to the Law" and your recent articles on good roads. I would like to see the RECORD placed with every Chamber of Commerce in the South.

The Views of a Lumber Concern.

E. C. BARTON, Secy.-Treas., Barton Lumber and Brick Co., Jonesboro, Ark.—Attached find our check for \$6.50 in payment of our subscription for another year. As your records will indicate, we have been subscribers for some time and the writer might say, in the way of appreciation, that when a number of lumber journals, magazines, etc., come in our mail, along at the same time that the MANUFACTURERS RECORD reaches us, that without an exception I invariably hasten to take the wrapper off of same and I feel it a duty to tell you that the cover page editorial is to me always worth more than the price paid. We do not expect to be without the MANUFACTURERS RECORD.

Potentialities of Muscle Shoals and the Tennessee River.

CHAS. W. HOWARD, Manager, Industrial Board Chattanooga Chamber of Commerce.—I want to congratulate you on your front page editorial of February 14. I have lived sufficiently long to know in a measure, how to separate the "wheat from the chaff." I have long since passed the hysterical age so that in my estimate of the value of your wonderful work for the South there is nothing whatever in it but cold, calculating appraisal. No man in the past forty years has more persistently or intelligently worked for the upbuilding of the South than your good self. I frequently marvel at your wonderful grasp on every condition. I am much like other men and I find myself unusually influenced to your ideas and ideals. Multiply me with your readers and you will find that you have built up step by step advocates for that section you have so intelligently contended for.

We Wish All Subscribers Would Follow Such a Good Example.

HARRY B. REDDING, Columbus, Ohio.—A few lines to say that it is with pleasure I am sending you enclosed money order for a renewal of my subscription for your most valuable paper. I would think that there was a vacancy in my home if when I come in at the end of the week your paper was not here when I arrive.

The strongest expression I can give you as to what I consider the value of your paper is that I will do my part in helping to broaden its circulation and help get it in the homes that are not already receiving it. In my rounds in 1924 I am going to make myself a booster in earnest for the MANUFACTURERS RECORD, and feel quite sure that I can get it started in a good many homes that should have been receiving it a long time ago.

I want to thank you for the prompt attention that I have received from you at all times and the regular time that I receive the paper, I assure you that I am going to be of some benefit to you in the year also wishing you the best of the season.

Showing How the Blue Book of Southern Progress Solves Questions of Fact Which Are Constantly Arising.

HON. J. SWINTON WHALEY, Member of House of Representatives of South Carolina, Little Edisto, S. C.—It is with great pleasure that I renew my subscription for two years to your most valued paper and look upon it as the greatest asset that the South has in all its periodical publications. The facts you give as to its history, both past and present, are of the greatest educational value. And your outlook upon the future of the South is most inspiring and encouraging.

Your letter of February 2 has been read with very great interest, and I assure you of my heartiest co-operation in trying to place your magazine before as many of my friends as possible. It may interest you to know that only last week I was enabled through your Blue Book to establish a question of fact that happened not to be within the knowledge of any member of the House. I wished then that it was within my power to place a copy of this book upon the desk of every member.

I would like to take this opportunity of thanking you for the prominence you gave in a recent number to the token of appreciation so beautifully rendered to one of the faithful black friends and servants. Nearly every family amongst us can give the same witness to those loyal devoted old "Uncles" and "Mammys."

MECHANICAL

Forge With Pressed Steel Hearth.

A blacksmith forge having a new feature consisting of a pressed steel hearth instead of the former three-piece construction is shown in the accompanying picture and this change in the manufacture of this type of forge, which has been developed by the Buffalo Forge Co., of Buffalo, N. Y., provides a much stronger hearth, one that is not only more durable but is of better appearance, it is stated by the manufacturers. The improvement has been incorporated by the company in their line of forges numbered respectively 231, 331, 531, 731 and 831, which include the other features usual in these forges, viz. angle iron legs, hand blower, rolled steel hood, cast iron fire pot, etc.

The pressed steel hearth, which is a decidedly novel improvement in forges of this size is 30 inches square and the water box, also of pressed steel is 24 inches by 10 inches.



IMPROVED BLACKSMITH FORGE.

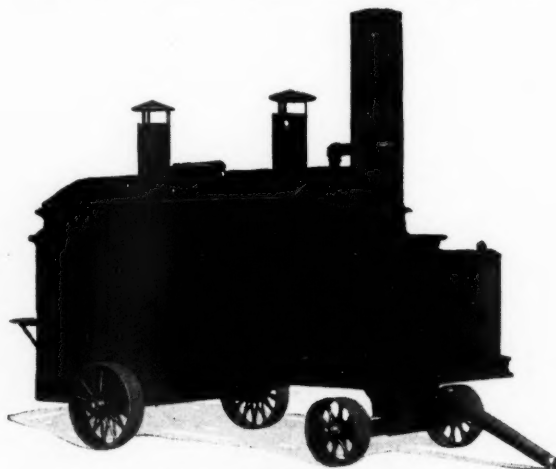
The hearth formerly used was in three separate pieces—the bottom, the sides and a reinforcing ring or plate for the fire pot: the side and bottom plates were seamed or welded together, the bottom piece being of heavy sheet metal and the sides of lighter metal. With this kind of construction there was often loosening of the plates after rust had formed in the seams. Now, the pressed steel construction of the hearth and the water pan will obviate the possibility of corrosion; rounded corners and the absence of joints will not allow rust to collect. Sides and bottom are of the same thickness, 12 gauge sheet steel. Instead of a reinforcing plate or ring for the firepot there is a crimped edge which is itself a reinforcement. The hood is of rolled steel in halves which are spot welded together. In the case of forge 831 there is a motor driven electric blower.

Portable Asphalt Producing Plant.

In the picture herewith is shown a portable plant for the production of air-blown asphaltic and bituminous materials for the use of road contractors and others. It is known as the "Pullar" asphalt producing plant and it is manufactured by Littleford Brothers, of Cincinnati, Ohio. The plant is a complete unit and it makes any kind of asphalt from flux oil. It is capable of producing asphalt for penetration work, asphalt cement for asphaltic concrete, or for sheet asphalt streets and roadways, and also asphalt filler for brick work.

During the last year the plant has been used under practical tests and, it is stated, has met with all standard specifications in from four to six hours, which, it is remarked, is quicker than solid filler can be melted.

Particular attention is called to the saving in cost, which should be of especial interest to the contractor. Asphalt cements and penetration asphalts, can it is claimed, be produced in less time than usual and they are so made as to meet any of the standard specifications. The plant itself and



FRONT VIEW OF PORTABLE ASPHALT PLANT.

the method of operating it in the production of asphalt are so simple that one man can conduct the entire operations. A recording thermometer and a work shelf are at the rear of the machine.

The plant was designed by H. G. Pullar, manager of the flux and road oil department of the India Refining Company, and patents are pending on it. Mr. Pullar early advocated the production and use of blown asphalts and he has been intimately associated with the production of this class of materials for the last fifteen years; he has made designs and acted in a consulting capacity for some of the largest asphalt blowing plants in the country.

The simplicity and practicability of this small portable asphalt producing plant are the results of years of experience obtained in working to attain a practical solution of the problem of how to produce asphalt on the job economically and efficiently. Littleford Brothers have the exclusive manufacturing rights for the plant and it will be distributed through their sales organization. Engineers and contractors who have seen it have been much impressed by its capacity and efficiency in practical operations.

New \$750,000 Store Building for Oklahoma City.

Oklahoma City, Okla.—Contract has been awarded to Campbell & Price of this city to erect a \$750,000 department store building here for the Kerr Dry Goods Co. The structure will be eight stories high, covering a site 82 by 140 feet. It will be of reinforced concrete and steel, finished in white stone and buff brick.

Display windows will extend around the building. The Main street lobby entrance, flanked by deep windows, will be covered by a canopy extending across the front of the structure. Two wide spiral stairways will lead into the basement. General offices of the company will be located on the fourth floor.

Will Sell \$1,250,000 School Bonds.

W. J. Avery, secretary of Rapides Parish School Board, Alexandria, La., wires the MANUFACTURERS RECORD that all bids for the purchase of \$1,250,000 school bonds have been rejected as being too low. J. W. Bolton of Alexandria is chairman of a committee to negotiate a private sale.

Construction Department

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained. Further facts about any incomplete or incorrect item reported in these columns are always appreciated.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$20.00 a year.

Bridges, Culverts and Viaducts

Ala., Florence—State Highway Comm., Montgomery, Ala., will receive bids until March 19 to construct steel super-structure for bridge over Shoal Creek, between Killen and Florence; five 157.5-ft. steel spans complete with floor; Lauderdale County, Project No. 144, Sec. A; plans, etc., on file, and from Bridge Engr., Montgomery; W. S. Keller, State Highway Engr.

Fla., Boynton—Palm Beach County received low bid from Champion Bridge Co., at \$22,550, to build bridge with draw, bridge tender's house, etc. Address County Comms.

Fla., Miami Beach Sta., Miami—Details under Road and Street Construction.

Fla., St. Augustine—County Comms. granted Ray L. Hendricks and associates franchise to build bridge across Matanzas Inlet, at extremity of Anastasia Island.

Fla., Tampa—Details under Road and Street Construction.

La., Houma—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, will receive bids until March 27 to build 11 bridges on Houma-Raceland Highway; Lafourche Parish, Federal Aid Project No. 113-B; varying in length from 15-ft. to 131-ft. and consisting of 4 creosoted timber trestle, 5 1-Beam spans, with wood floors, and 2 creosoted timber swing spans; 70,000 ft. board measure untreated lumber; 9000 lin. ft. creosoted piling; 80,000 lbs. structural steel; 30,000 lbs. hardware; plans, etc., on file; J. M. Fourmy, State Highway Engr.

Missouri—State Highway Dept., Jefferson City, plans building 12 bridges as follows: State Project Route 24, Benton County, 2 bridges; over Stream on road from Clinton to Cole Camp, 35-ft. reinforced concrete deck girder span, 20-ft. roadway; 2 reinforced concrete abutments; over Stream on road from Cole Camp to Clinton, 60-ft. steel truss span, concrete floor 20-ft. roadway; 2 reinforced concrete abutments; Route 5, Linn County, over Muddy Creek on road from Linneus to Laclede, 60-ft. steel truss span 20-ft. roadway; concrete floor; 2 reinforced concrete abutments; Route 3, Sec. 95, Green County, over Sequiota Branch, on road from Springfield north and south, 35-ft. reinforced concrete deck girder span, 20-ft. roadway; 2 reinforced concrete abutments.

Route 51, Sec. 3-A, Perry County, over Drainage Ditch, on road from Perryville north, three 40-ft. reinforced concrete deck girder spans, 20-ft. roadway; 4 reinforced concrete bents; Route 41, Saline County, over Salt Fork, on road from Marshall to Miami, 90-ft. steel truss span, concrete floor, 20-ft. roadway; four 25-ft. 1-Beam spans, wood floor, 2 reinforced concrete piers; 4 creosoted wood pile bents; Route 21, Carter County, over Brushy Creek, on road from Van Buren to Hunter, two 24-ft. reinforced concrete deck girder spans, 20-ft. roadway; 2 reinforced concrete abutments; concrete pier.

Route 2, Howard County, over Missouri, Kansas & Texas R. R. tracks, and Salt Fork, on road from St. Louis to Kansas City, 60-ft. steel deck plate girder span, concrete floor, 20-ft. roadway; eight 40-ft., one 35-ft. and two 28-ft. reinforced concrete deck girder spans; two 20-ft. reinforced concrete slab spans; 12 reinforced concrete bents; Route 55, Sec. 5, Scott County, over Drainage Ditch on road from Benton to Charleston, 10-ft. reinforced concrete slab span, 20-ft. roadway; 2 reinforced concrete bents; Route 39, Dade County, 3 sections on road from Greenfield to Pennsboro; over Stream, 40-ft. reinforced concrete deck girder span, 20-ft. roadway; 2 reinforced concrete abutments; over Stream, two 30-ft. reinforced concrete deck girder spans, 20-ft. roadway; 2 reinforced concrete abutments; concrete pier; over Limestone Creek, 40-ft. reinforced concrete deck girder span, 20-ft. roadway; six 20-ft. reinforced concrete slab spans; 2 reinforced concrete piers and pile bents; B. H. Piepmeier, Ch. Engr.

Missouri—State Highway Dept., Jefferson City, let contracts to R. P. Harper Construction Co., Leona, Mo., for 2 bridges on road from St. Joseph to Hannibal, as follows: Over Overflow of Grand River, and over Grand River.

N. C., Warrenton—Towns of Warrenton, N. C., and Lawrenceville, Va., plan building steel and concrete bridge over Roanoke River, at point known as Mountain Rock. Address J. J. Tarwater, Warrenton, N. C., or Marvin Smithey, Lawrenceville Va. (See Machinery Wanted—Bridge Construction.)

Okla., Chickasha—Details under Road and Street Construction.

Okla., Jay—Delaware County Comms. will receive bids until March 3 for steel bridge over Honey Creek; 38,000 lbs. structural steel; 7000 lbs. reinforced steel; 160 cu. yds. 1-2-4 concrete; estimated cost \$10,000.

Okla., Watonga—Blaine County plans expending \$250,000 for bridge and road building. Address County Comms.

Tenn., Chattanooga—City contemplates constructing viaduct on East 3rd St. Address City Engr. Hooke.

Tenn., Nashville—Board of Public Works, will receive bids until March 22, to furnish material, labor and repair Sparkman and Jefferson St. bridges; 37,000 cu. yd. concrete; 368,000 lbs. steel reinforcement; 15,000 lbs. structural steel; 223,000 sq. ft. gunite treatment; plans, etc. from Freeland, Roberts & Co., Engrs., 1212 Independent Life Bldg.

Tex., Austin—Travis County plans building concrete bridges and culverts on 6 mi. Pierce Lane road, estimated cost \$20,000; O. Leonard, County Engr.; Geo. S. Mathews, County Judge.

Tex., Bandera—M. F. Johnston, interested in building concrete bridge across Medina River.

Tex., Colorado—Mitchell County will receive bids soon to surface with 1000 sq. yds. hot mix bituminous wearing surface treatment 2 bridges; Colorado River and Lone Wolf Creek; also plans paving 19 mi. State Highway No. 1, 20-ft. wide with 5-in. concrete base, and 2-in. hot mix bituminous wearing surface; 2282 sq. yds.; Frank F. Du Bose, County Engr.; J. C. Hall, County Engr. (Lately noted.)

Tex., Richmond—Fort Bend County let contracts at \$376,000, to build bridge over East Bernard River; cantilever design; to Austin Bridge Co., Dallas, for super-structure; to Missouri Valley Bridge & Iron Co., Leavenworth, Kan., for substructure.

Virginia—State Highway Comm., Richmond, will receive bids until March 12 to build 7 bridges as follows: Project 118B, Route 33, Roanoke and Franklin Counties, 112-ft. reinforced concrete bridge over Back Creek on Roanoke-Boone Mill road; F-118E, Route 33, Franklin County, 85-ft. steel truss bridge over Blackwater River on Rocky Mount road; S-188B, Route 323, Lunenburg County, 65-ft. reinforced concrete bridge over Couches Creek on road from Lunenburg; S-196, Route 22, Craig County, 2 bridges and approaches over Craig Creek; 167-ft. steel truss and reinforced concrete bridge; 142-ft. steel truss and reinforced concrete bridge; 8 mi. grading and drainage in approaches; S-293, Route 23, Giles County, 129-ft. reinforced concrete bridge over Sinking Creek on Newport-Hoges Store road; S-137, Route 12, Mecklenburg Co., 37-ft. reinforced concrete bridge over Butchers Creek, on Chase City-Boydton road; plans, etc., from Dist. Engrs., as follows: F-118B, F-118E, S-196C and S-293, Salem; S-317, Richmond; H. G. Shirley, Chmn. of Comm.

Canning and Packing Plants

Ga., Lyerly—Mrs. L. Lindsay Johnson of Rome, Ga. interested in establishment of canning plant.

Ky., Burnside—Burnside Canning Co., capital \$10,000, incorporated by C. H. Raugh, W. E. Singleton and others.

Md., Baltimore—Johnson Dumbracco Co., Inc., 1109 American Bldg., capital \$25,000, incorporated by Harold H. Johnson, Clarence A. Dumbracco and others.

S. C., Sumter—Sumter Packing Co., capital \$10,000, incorporated by H. A. Shaver of Sumter; J. M. Porter, Roanoke, Va.

Tenn., Greenback—Old Dominion Canning Co., of Roanoke, Va. has acquired site and will erect canning plant.

Tex., Beaumont—Wetherup Cork Packing Co., incorporated by C. J. Wetherup, J. A. Mitchell and others.

Tex., San Juan—Rio Grande Valley Canning & Packing Co., incorporated by Dr. J. W. Taylor of Cardin, Tex., J. B. Hampton of Commerce, Tex. and others; will erect 20,000 capacity canning plant; will plant 67 acres

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned

of land in vegetables and product canned at factory.

Clayworking Plants

Ala., Decatur—Decatur Brick & Tile Co. will erect addition to plant.

Ky., Mt. Savage—Carter County Clay Co., capital \$300,000, incorporated with Grant Thornburg, Pres.; E. M. Evington, Sec.; Kitchen Bldg., Ashland, Ky., will erect \$250,000 plant with daily capacity 125,000 high grade face brick.

N. C., Gastonia—Gastonia Brick Co., capital \$50,000, incorporated with A. B. Lewis, Pres.; John L. Currance, Sec.; has 20 acres of good clay 12 or 15 ft. deep and will develop; will manufacture brick with daily output 30,000 to 40,000. (See Machinery Wanted—Steam Shovel.)

Coal Mines and Coke Ovens

Md., Baltimore—Anthracite Fuel Corp., is building plant, at Eighth St. and Fair Ave., Canton, including garage, boiler house, tank shed, ovens, coal dust bin, press room, storage bin, etc.; will manufacture briquettes.

Mo., Columbia—Black Foot Coal Co., incorporated by A. M. Stevinson, E. J. Estes and others.

W. Va., Charleston—Carber Coal Co., capital \$50,000, incorporated with A. C. Carber, Pres.

W. Va., Nuriva—Nuriva Smokeless Co. H. R. Tribout, Pres., Tams, W. Va., changed name from Trace Fork Coal Co., and have also secured change in name of postoffice from Tracoal to Nuriva.

Cotton Compress and Gins

N. C., Lowe—Lowe Ginning Co., capital \$52,000, incorporated by R. S. Beam, Rowland Townsend and others, all of Lumberton, N. C.

Tenn., Memphis—Rogers Gin Co., capital \$50,000, incorporated by Roy Denise, John W. Harris and others.

Tex., Odem—C. C. Smith will erect five stand cotton gin; capacity 100 bales cotton daily; will install Fairbanks-Morse engine, Y-type of 100 H. P.

Tex., Idalou—J. S. and W. N. Smith of Smith Gin Co., Stamford, Tex., have acquired and will operate Daniel Gin.

Tex., Plainview—Ben Whitfill of Lockney, Tex. will erect cotton gin.

Va., Norfolk—Princess Anne Cotton Gin, Inc., capital \$15,000, chartered with G. W. Capps, Pres., Black Bay; Charles H. Lambeth, Sec., Norfolk.

Cottonseed-Oil Mills

Ark., Magnolia—Columbia Cotton Oil Co., J. R. Willis, Mgr., will probably rebuild seed house and fertilizer plant in the summer, lately noted burned at loss of \$125,000; details not available.

N. C., Henderson—Henderson Cotton Oil Mill Co., S. R. Chavasse, Sec.-Treas., will rebuild buildings, lately noted burned.

Drainage and Irrigation

Fla., Bartow—City, let contract to Moseley Construction Co., of Atlanta, Ga., at \$22,800, for work on the McKinney Branch drainage project; work includes drainage of vast area of low land north of city into Peace River, canals will traverse the areas to Brittville. (Previously noted voted \$25,000 bonds.)

S. C., Bamberg—Bamberg County Commrs. interested in establishing drainage system, reclaiming thousands of acres of land along

the South Edisto River; contemplates bond issue.

Tex., Port Arthur—Details under Land Developments.

Electric Light and Power Plants

Alabama—River Falls Power Co., River Falls, Houston Power Co., Dothan, and Pea River Power Co., Troy, reported to interconnect their individual systems, purchase and install equipment necessary to make exchange of power from one plant to another at cost of about \$100,000 and develop ultimate capacity of 20,000 h.p.; plans call for installing feeder panel at Gantt, Ala. at present switchboard and connecting outgoing line of 2300 volts to bank of two or three 500 K.V.A., 2300-3300 volt transformer complete with substation equipment; build 2300 volt transmission line 15 miles long connecting Gantt and Opp; provide a 3 way metering, switching and switchboard station at Opp; install metering and switching station at Samson; build 2300 volt line connecting Samson and Geneva and install switching, transforming and synchronizing station at Geneva; Southern Engineering Corp., Albany Ga. Emmet Kilbrew, Pres. are engineers; plans are being prepared and bids will soon be invited for project. (River Falls Power Co., lately noted to construct hydro-electric plant on Conecuh River.)

Florida—W. S. Barstow & Co., 50 Pine St., New York City, reported to have organized the Florida Public Service Co., which has acquired from local owners the properties of Orlando Public Service Co., Orlando Gas Co., Florida Ice & Power Co., Deland Electric Light and Power & Ice Co., Eustis Light & Water Co., supplying electric light and power in twenty-one communities in Central Florida, including DeLand, Eustis, Traversa, Winter Park, Davenport, Haines City, Dundee, Lake Wales, Mt. Dora, Frostproof, etc. (Lately noted.)

Ga., Macon—Central Georgia Public Service Co., organized with R. E. Burger, Pres., 60 Wall St., New York; Paul W. Fisher, Sec., 62 Cedar St., New York; will erect ready for service a 10,000 k.w. steam plant for power users, cost \$2,500,000; will erect building to house boilers, turbines, etc., probably 40x150 ft.; Henry L. Doherty & Co., Archt. and Contr., 60 Wall St., New York. (Central Georgia Power Co. lately noted to erect building to be owned by Central Georgia Public Service Co.)

Fla., Miami—Details under Land Developments.

Ky., Falmouth—Northern Kentucky Power Co. of Frankfort, Ky., has applied for permission to construct a 120-ft. concrete hydro-electric dam on the Licking River.

La., Lake Charles—Stone & Webster Engineering Corp., 147 Milk St., Boston, Mass., reported to have obtained option for purchase of public utilities from Lake Charles Railway, Light & Water Works. Co.

Miss., Biloxi—Biloxi Electric Co., capital \$15,000, incorporated by W. A. Sullivan, N. H. Spindler and others.

Miss., Tupelo—Mississippi Light & Power Co., H. M. Couch, Pres., Jackson, Miss., reported to treble capacity of plant at Tupelo; have been granted authority by the city to construct distribution lines throughout the city.

Mo., Ashburn—Citizens Light Co., incorporated by E. B. Martin, L. T. Taylor and others.

N. C., Badin—Regarding construction program of Tallassee Power Co. for 1924, S. A. Copp, Gen. Supt., writes the Manufacturers Record that the only thing they have

under way is the addition of fourth unit to the Narrows Development power house; this will consist of Allis Chalmers Co. 31,000 maximum h.p. turbine unit and a General Electric 25,000 k.w. generator; Riter Conley Co. are to furnish the penstock.

N. C., Greensboro—See Textile Mills.

N. C., North Wilkesboro—City let contract to Foster & Allen, North Wilkesboro, to construct power house, concrete, brick and steel; cost \$14,300.

N. C., Wilmington—Details under Land Developments.

S. C., Bamberg—Board of Public Works, L. P. Tobin, Supt. will make extension to existing power house; will develop 300 h.p.; install two 150 h.p. oil engines generator sets direct connected to 125 K.V.A. generator. (See Machinery Wanted—Generator Sets.)

Tenn., Chattanooga—Central Business Men's Assn., S. H. Borisky, 245 E. Main St., opens bids March 5 for construction of white way system to cost \$18,000. (Lately noted.)

Tenn., Lenoir City—East Tennessee Power Co., J. N. Armstrong, local engineer, is constructing sub-station; 272x275 ft.; building will contain 3 transformers and will be three times size of present structure; R. M. Caloway & Co. has contract for excavation and concrete work; cost \$150,000.

Tex., Austin—Public Service Corporation of Texas, 828 Littlefield Bldg., formed to complete Austin dam and power house; plan issuing \$650,000 bonds.

Tex., Coleman—West Texas Utilities Co. will erect 3-story building for offices and ice manufacturing plant.

Tex., Lufkin—Details under Land Developments.

Tex., Waco—Major Robert Muldrow of U. S. Geological Survey, has completed topographical survey of Bosque River above Waco, relative to constructing reservoir to impound water equal to area of 20,000 acres and 40-ft. deep.

Va., Narrows—Virginian Railway Co., H. Fernstrom, Chief Engr., Norfolk, Va., will erect 2 story, concrete, steel and brick power house, concrete flooring and foundation, poret concrete slabs with zinc shingle roof, metal doors, steel sash and trim, ventilators; Gibbs and Hill, Archt. and Const. Engr., Pennsylvania Station, New York; have awarded following contracts: To Westinghouse Electric & Manufacturing Co., East Pittsburgh, Pa., for turbines, condensers, transformers and switching equipment; to Combustion Engineering Corp., 43 Broad St., New York, for pulverized fuel equipment; to Springfield Boiler Co., Springfield, Ill., for water tube boilers; to The Super Heater Co., 17 East 42nd St., New York, for super heaters; to The Lehigh Structural Steel Co., Allentown, Pa., for structural steel for power plant transmission towers and anchorages and fabricated "H" columns; to Link-Belt Co., 300 West Pershing Rd., Chicago, Ill., for water screening elevators, coal handling equipment; to The Heine Chimney Co., 123 West Madison St., Chicago, Ill., for chimneys; to Northern Engineering Works, 210 Chene St., Detroit, Mich., for crane; to Marion Machine Foundry & Supply Co., Marion, Ind., for soot blowing equipment; to American Arch Co., Inc., 30 Church St., New York, for flat boiler arches; to The Porete Manufacturing Co., for roof slabs. (Lately noted.)

Tex., Fabens—Major Robert Lee Howze, Fort Bliss, Tex., Frank M. Murchison, El Paso, Tex., reported interested in erection of electric light plant and ice factory; cost about \$35,000.

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W. Va., Clarksburg—Details under Land Development.

W. Va., Weston—City, Andrew Edmiston, Jr., Mayor, will install lighting system.

Fertilizer Factories

S. C., Chester—Ira A. Smith interested in erection of fertilizer plant.

Flour, Feed and Meal Mills

La., New Orleans—The Talmage-Panama Rice Milling Co., Inc., increased capital from \$20,000 to \$50,000, changed name from Panama Rice Milling Co.

Foundry and Machine Plants

Md., Curtis Bay, Baltimore—Curtis Bay Copper & Iron Works, J. W. Lehr, plant Mgr., has under construction 2 fuel oil tanks, 10x25 ft. and small boiler house; cement floors, corrugated iron roof; cost of new building \$2000 and equipment \$8000; construction by owners. (Lately noted.)

Tenn., Chattanooga—The Hardwick Stove Co., let contract to The Austin Co., Cleveland, Ohio, to erect 80x230-ft. addition to the moulding room, brick and steel construction; estimated cost \$75,000.

Tenn., Memphis—Rogers Gin Co., capital \$50,000, incorporated by Roy Denise, John W. Harris, Jr. and others; to manufacture cotton gin machinery.

Tenn., Nashville—Jakes Foundry Co., capital \$100,000, incorporated by Robt. Jake, Edw. F. Jake and others.

Gas and Oil Enterprises

Ala., Mobile—Mobile Gas Co. petitioned Alabama Public Service Co. for permission to issue \$185,000 bonds.

Fla., Miami—Miami Gas Co., has been granted franchise.

Fla., West Palm Beach—Ralph B. Wagner, 1409 Florida Ave., of Appleby-Wagner Co., has acquired local gas plant including building, equipment, etc., and will expend \$75,000 on rebuilding and improvement program; plans include changing present distribution system into high-pressure distribution system; erection at gas plant of steel building and install generating, condensing, scrubbing and purifying apparatus, boilers, separating tank and various meters; later it is planned to extend gas mains to Palm Beach and Lake Worth.

La., Monroe—Consumers Gas Co., capital \$24,000, incorporated with T. E. Flournoy, Pres.; E. N. Florsheim, Sec.

Md., Baltimore—Details under Land Developments.

Mo., Jefferson City—Home Oil Co., capital \$100,000, incorporated by Don A. Daso, Harry Woodruff and others.

N. C., Asheville—Asheville Power & Light Co. will expend about \$20,000 in extension to gas mains.

N. C., Winston-Salem—L. M. Swink of Winston-Salem Gas Co. has petitioned city for extension for gas franchise; company contemplates expending \$300,000 for erection of gas plant.

Okl., Lyman—The Lyman Gas & Electric Co., capital \$25,000, incorporated by W. H. Guthrie, T. A. Lemaster and others.

Okl., Oklahoma City—Berry Petroleum Co., capital \$100,000, incorporated by Gilles A. Penick, D. C. Turner and others.

Okl., Oklahoma City—The American Investment Co., capital \$500,000, incorporated by Walter B. Paschall, John N. Paschall and others.

Okl., Ponca City—The Trades Lease & Royalty Co., capital \$50,000, incorporated

by W. R. Laventure, David Allison and others.

Okl., Tulsa—Berry Petroleum Co., capital \$100,000, incorporated by Gilles A. Penick, D. C. Turner and others.

S. C., Clover—Home Oil Co., incorporated with I. J. Campbell, Pres.; V. Q. Hambright, Sec.

Tenn., Memphis—Reed Oil Co., increased capital from \$150,000 to \$200,000.

Tex., Electra—Atlantic Oil & Production Co., Dallas, Tex., has acquired from Houston Oil Co. of Texas, 40 acres of land with 12 producing wells, approximating 425 bbls. daily.

Tex., Fort Worth—The Brandon-McCamey Corp., capital \$200,000, incorporated by W. L. Brandon, G. B. McCamey and others.

Tex., Houston—Houston Holding Corp., capital \$10,000, chartered by R. B. Means, O'Brien Stevens and others.

Tex., Iowa Park—Beaver Drilling Co., capital \$20,000, incorporated by A. D. Morton, J. E. Keller and others.

Tex., Laredo—Cornhusker Oil Co., capital \$25,000, incorporated by C. A. Ingersoll, Edw. Mann and others.

Tex., Texas City—Knox Process Corp., New York, let contract to American Construction Co., Houston, Tex. to construct gasoline manufacturing plant; have 140 acres site; will erect plant in 6 units, first of which will be erected and in operation by Aug.; entire amount to be expended \$2,000,000. (Lately noted.)

Tex., Wichita Falls—Company organized with Roy B. Jones, Pres.; W. M. Priddy, V.-P., will construct 25 mi. 6-in. pipe line from refinery district to heart of oil production in Archer County.

Tex., Wichita Falls—Dale Oil Co., capital \$1,250,000, incorporated by J. E. Dale, E. F. Griswold and others.

Va., Norfolk—Details under Motor Cars, Garages, Tires, etc.

Va., Norfolk—Details under Land Developments.

Va., Rocky Mount—S. R. S. Oil Co., capital \$25,000, incorporated with S. R. Smith, Pres., Scruggs, Va.; C. R. Pergue, Sec., Rocky Mount.

Ice and Cold-Storage Plants

Ala., Alexander City—Home Ice Co., capital \$30,000, incorporated by J. F. Rushton of Birmingham; S. P. Kennedy of Talladega, Ala.

Ala., Montgomery—Atlantic Ice & Coal Corp., A. B. Pope, local mgr., have completed plans for the erection of ice plant, estimated cost between \$30,000 and \$40,000.

Fla., Madison—Town, S. P. Griffin, Clk. is receiving bids on contract for installation of 10-ton ice plant in connection with power plant. Address H. D. Oxford, Chrmn. Water Works Committee. (Lately noted.)

Ky., Paintsville—B. R. M. Ice Co., Inc., chartered by J. H. Moore, H. J. Black and others.

Miss., Vicksburg—James J. and John T. Corrigan will remodel buildings for a raw water ice making plant, install 25 ton capacity equipment.

N. C., Charlotte—The Icy-O-Metal Co., capital \$300,000, incorporated by Marcus Bloom, W. W. Blount and others.

Tex., Fabens—Details under Electric Light and Power Plants.

Tex., Houston—Grimmet Co., Capital \$15-

000, incorporated by B. W. Grimmet, W. L. Wells and others.

Tex., Port Arthur—Consumers Ice & Coal Co., capital \$50,000, incorporated by J. F. Jakowicz, W. T. Hooker and others.

Tex., Spur—The Spur Light & Power Co. interested in establishing ice plant.

Va., Bristol—Bristol Coal & Ice Co., Inc., R. F. Wagner, Pres., has about completed plant for the manufacture of ice, and installed latest type of ice making machinery; will later erect coal tipples and cold storage plant. (Lately noted.)

Va., Coeburn—Coeburn Chero-Cola Bottling Co. plans installing 10 ton ice plant. (See Machinery Wanted—Ice Making Machinery.)

Iron and Steel Plants

Ala., Ensley—Tennessee Coal, Iron & Railroad Co., reported to plan plant improvements, including additional open-hearth capacity and expansion of the finishing mills.

Land Development

Ala., Florence—Florence Golf & Country Club, incorporated by W. H. Mitchell, H. A. Bradshaw and others; has lease on 100 acres of land and will develop for golf course.

Ala., Huntsville—Community Service, Dr. E. F. Austin, Pres., interested in development of 16 acres of land for park and lake.

Fla., Daytona—Harry R. Lean of Seabreeze, Fla., reported interested in organization of company to develop Sawyer tract of land with river and ocean frontage.

Fla., Daytona — Peninsula Realty Co., Harry R. Lean, will develop approximately 50 acres of land for subdivision.

Fla., Fellsmere—Col. R. D. Black, interested in development of 150,000 acre tract of St. Lucie county land; George F. Maddock, in charge of drainage work.

Fla., Miami—City Commrs. adopted a tentative plan for development of \$2,000,000 bay front municipal park; plans provide for piers at northeast and south end of park with space for from 75 to 100 boats; parking space for 1000 automobiles with double boulevard; bandstand; floating dock for seaplanes; fill for park will be provided by pumping out roadstead approximately 2000 ft. in width opposite the park, etc.; Warren H. Manning, Landscape Archt., Cambridge, Mass.

Fla., Miami Beach—Grove Lake Corp., incorporated by Frederick H. Post, of East Williston, L. I., Howard L. Platt, of New Britain, Conn., will develop tract of land on Forty-seventh St.

Fla., Miami Beach—Klem Realty Co., capital \$100,000 incorporated with W. J. Klem, Pres., Harry A. Stratton, Sec.

Fla., Miami Beach — Grove Lake Corp., capital \$100,000, chartered with Fred H. Post, Pres.; Joseph Elsener, Sec.

Fla., Miami Beach Sta., Miami—Details under Road and Street Construction.

Fla., Miami—Wilson Investment Co., A. K. Wilson, Pres., will develop Dearborn Park for subdivision; will soon receive bids for complete water plant with 4-in. mains, fire hydrants and 2½-in. laterals; for extension of electric lights to subdivision, building 5-ft. sidewalks and curbs, etc.

Fla., Orlando—Walter W. Rose of Rose Investment Co., has acquired 300 acres of land and will develop for subdivision; will install sidewalks and streets; electric lights and water works, etc.; will also erect several dwellings; A. D. Taylor Co., landscape Archt., Cleveland, Ohio.

Fla., St. Petersburg—The J. M. Cosgrove Co., capital \$50,000, incorporated with J. M. Cosgrove, Pres.; H. Kent, Sec.

Fla., Tampa—Carl L. Newborn acquired 70 acres of land and will develop for subdivision.

Fla., Tampa — Details under Road and Street Construction.

Fla., West Palm Beach—Oslo Beach Development Co., capital \$200,000, incorporated with A. W. Young, Pres.; John Leroy Hutchison, Sec.

Ga., Augusta—Augusta Baseball Co., capital \$15,000, incorporated by J. Marvin Wolfe, Chas. M. Farrar and others.

Ga., Savannah—Harock Hall Corp., capital \$25,000, incorporated by H. O. Lowden, W. T. Knight, Jr. and others; will develop 150 acres on LaRoach Ave. and Norwood Ave.; will grade streets, etc.

Md., Baltimore—Belvedere Park Co., 1817 Munsey Bldg., capital \$100,000, incorporated by Archibald Sykes, R. Walter Cohen and others.

Md., Baltimore—The Kear-Fos Co., 337 St. Paul Place, capital \$50,000, incorporated by J. Kearsley Kearney, Foster T. Fenton and others.

Md., Baltimore—James Keelty, 3600 Edmondson Ave., has acquired 80 acres of land on York Road and will develop for subdivision; will have tract surveyed; install sewer, water, gas pipes, concrete roads, etc.

Md., Baltimore — Wolcott Realty Co., Gwynnwood Apts., incorporated by Harry F. Shew, Jr., Harry F. Shew, Sr., and others.

Md., Snow Hill—Public Landing Realty Co., lately noted incorporated with \$100,000 capital, Wm. E. Bratten, Sec., will develop 1000 acres for subdivision.

Miss., Gulfport—McHenry Statsuma & Nursery Co., capital \$25,000, incorporated with G. P. Smith, Pres.; Hattiesburg; E. E. Colmer, Sec., Wiggins, Miss.; will develop 1310 acres of land in satsumas and other fruits.

Mo., Gape Girardeau—G. T. Taylor of Memphis, Tenn., acquired 4000 acres of land and will develop for cotton plantations.

Mo., Kansas City—Oxford Realty Co., incorporated by F. S. Stroheker, C. L. Blies and others.

Mo., St. Louis—Evelyn Horton Realty Co., incorporated by G. L. Brown, G. J. Sherwood and others.

Mo., St. Louis—Central Holdings Co., capital \$110,000, incorporated by Meyer and Julius Cohen and others.

Mo., St. Louis—Fern Glen Realty Co., incorporated by Horace B. Fitzwilliams, Wm. N. Kletzer, 1641 S. Spring St., and others.

Mo., St. Louis—William King & Co., Inc., chartered by Wm. King, J. P. Henry and others.

Mo., St. Louis—A. B. Candy Realty & Investment Co., capital \$50,000, incorporated by A. B. and O. L. Candy and others.

Mo., St. Louis—Italian Fraternal Building & Investment Co., capital \$20,000, incorporated by Joseph Devoti, B. F. Zeraga and others.

N. C., Asheville—Malcragson Land Co., Garland Thomasson, acquired 223 acres and will develop for residential development.

N. C., Charlotte—Clydesdale Farms Co., capital \$25,000, incorporated by John Fletcher King C. Little and others.

N. C., Gastonia—Long Realty Co., capital \$10,000, incorporated by V. E. Long, Wade S. Bulce and others.

N. C., Greensboro — Greensboro Apart-

ments, Inc., capital \$200,000, incorporated by J. D. Wilkins, L. H. Martin and others.

N. C., Spencer—H. A. Headinger and J. A. Howard will develop 20 acres for Riverside Park; will install merry go-rounds, ferris wheels, etc.; install sewer system; roads; open building proposals May 10. (Lately noted.)

N. C., Wilmington—Wilmington Real Estate Board, W. C. James, Sec., will develop from 5 to 50 acres of land on Wrightsville Sound opposite Wrightsville Beach for auto tourist camp; will install electric lights, small sewer system with septic tank; drill deep well; construct approximately 2000 ft. of roadway; erect bath houses and toilets; cost about \$10,000; McKean Maffitt, Constr. Engr., Wilmington, N. C.

N. C., Winston Salem—E. P. Yates Co., capital \$100,000, incorporated by E. P. Yates, W. M. Brown and others.

Okla., Okmulgee—Charles E. Douglas will establish park at cost of \$100,000; will erect swimming pool, dance pavilions, and other modern devices.

Okla., Tulsa—Theodore Cox, Pres., of Oak Cliff Realty Co. is developing subdivision; has let contract for one half of sewer system and will soon let contract for remainder; have also let contract for paving.

Tenn., Knoxville—Rogers Realty Co., capital \$10,000, incorporated by John Rogers, C. E. Dawson and others.

Tenn., McMinnville—Mountain View Cemetery Assn., capital \$25,000, incorporated by T. F. Clark, F. G. Boyd and others.

Tex., Dallas—Palace Realty Co., Inc., chartered by P. E. Wilson, W. R. Loyd and others.

Tex., Fort Worth—W. J. Rogers interested in development of 100 acres for subdivision.

Tex., Port Arthur—Dr. W. B. Johnson, Terminal Bldg. has acquired 1560 acres of land on Neches River and will develop for subdivision; will organize company, dividing land into 5-acre tract, constructing 21 miles of drainage district; build 10½ miles hard surface roads; approximate cost \$100,000; plans not fully matured and no contracts let. (Lately noted.)

Tex., Hamlin—Hamlin Chamber of Commerce, H. O. Castle, Pres. and Ladies Civic Club interested in development of 18-acre park.

Tex., Lufkin—Martin Wagon Co., J. W. Lewis, Sec., will develop tract of land for subdivision; will install electric lights; sewer system; water works; gravel roads and streets. (Lately noted.)

Va., Cheriton—Guy L. Webster Corp., capital \$500,000, chartered with Guy L. Webster, Pres.; M. E. Post, Sec.

Va., Luray—Blue Ridge Land Corp., lately noted incorporated with \$25,000 capital, M. J. Menefee, Sec.; will develop 500 acres of land for suburban homesite; install gravity water system; roads and streets, etc.

Va., Norfolk—Tide Water Industrial Corp., capital \$500,000, chartered with R. L. Gould, Pres.; Henry R. Marks, Sec., both Portsmouth, Va.

Va., Norfolk—Barbot Realty Corp., capital \$50,000, incorporated with J. E. Barclay, Pres.; W. M. Bott, Sec.

Va., Norfolk—Richland Golf Club, organized with \$150,000 capital, C. E. Townsend, Sec.-Treas., 251 Main St., to develop 400 acres of land as golf course; will install gas; water works; sewer system; roads and streets, etc.

Va., Rocky Mount—Willis & McNeil, capital \$20,000, incorporated with C. B. Willis, Pres.; R. L. McNeil, Sec.

W. Va., Clarksburg—Peoples Home Corp., Richard Scott, Sec., will develop 152 acres of land; will install small electric plant; sewer system; water works; roads and streets construct artificial lake; expend \$50,000.

W. Va., Huntington—Interurban Land Co., capital \$25,000, incorporated by L. J. Corbly, Stewart H. Bowman and others.

W. Va., Logan—Belcher Land Co., capital \$25,000, incorporated by Lee Belcher, Logan; J. R. Marcum of Huntington and others.

Lumber Enterprises

Ala., Mobile—Government Street Lumber Co., increased capital from \$50,000 to \$125,000.

Fla., Bradentown—R. L. Dowling & Sons, have purchased from The Roux-Askew Lumber Co. a double circular saw mill, planing mill, dry sheds and machine shop, etc., with logging railroad and equipment, and timber holdings consisting of about 200,000,000 ft.; have made improvements, increasing output; all additional machinery purchased.

Ga., Augusta — Augusta Hardwood Co., (lately noted incorporated, capital \$100,000) organized with C. F. Korn, Pres.; F. C. Douglass, Sec.; will erect mill construction building, erection by owners; daily capacity 50,000 ft. hardwood lumber.

Miss., Grenada—Lee L. Glass Lumber Co., capital \$25,000, incorporated by Lee E. Glass, T. W. Thurn and others.

Miss., Sturgis—Price Moore, of Kosciusko, Miss. reported to establish planing mill, etc.

N. C., Burlington—Midway Lumber Co., will erect one story brick building, concrete floors; brick foundation; galvanized iron roofing; construction by owners; will install flooring machines; cut off and saw and rip saws. Lately noted burned at loss of \$15,000. (See Machinery Wanted — Wood-working Machinery.)

N. C., Fayetteville—Cross Creek Lumber Co., Inc., capital \$50,000, chartered by G. E. Betts, G. H. West and others.

Okla., Tulsa—Hanna Lumber Co., increased capital from \$25,000 to \$100,000.

S. C., Columbia—The Carolinas Timber Co., incorporated with James M. Green, Pres.; James M. Green, Jr., Sec.-Treas.

Tex., Palacios—Price Lumber Co., capital \$20,000, incorporated by J. F. Barnett, Opal D. Price and others.

Tex., Wichita Falls—Miller Lumber Co., capital \$24,800, incorporated by J. A. Richolt, J. H. Taylor and others.

Metal-Working Plants

Ala., Mobile—Modern Welded Products Co., capital \$50,000, incorporated by J. J. Blackshear, M. S. Adams and others.

Tex., Galveston—Gulf Can Co., capital \$50,000, incorporated by Charles C. Groat, Eugene Collins and others.

Tex., Houston—Etie Sheet Metal Works, Inc., capital \$10,000, incorporated by W. R. Etie, D. Barker and others.

Mining

Ky., Marion—Commercial Flourite Co., John G. Bellamy, Mgr., Haynes & Guggengelm Bldg.; will erect light frame buildings (temporary construction) earth floors, composition roll roofing, have installed light oil driven hoists, compressors, etc., purchased from J. N. Boston and T. H. Cochran, both Marion; will mine fluor-spar, daily output not uniform.

Mo., Marshfield—Webster County Quarry Co., capital \$25,000, incorporated by Orville

E. Jennings, Springfield; J. Hoover Marshfield and others.

Mo., Marshfield—Webster County Quarry Co., capital \$250,000, incorporated by W. J. Hoover, Marshfield; Orville E. Jennings, Springfield, Mo., and others.

Mo., St. Louis—Harry Scullin, Pres. of the Scullin Steel Co. and associates reported to have acquired by purchase and option 41,000 acres land in the Raccoon mountains, containing approximately 20,000 tons iron ore and 9000 tons of metallurgical coal to the acre; plans include building own barges and tow boats, erect blast furnaces, etc., estimated cost \$25,000.

North Carolina—R. F. MacPhail & Co., Charleston, W. Va., have acquired the R. S. Porter iron ore mine in the Peachtree section, plans installing plant increasing output.

Oklahoma—The Eagle-Picher Lead Co., A. E. Bendelari, V. P., Springfield, Mo., has acquired the 400 acre Mabon tract, near Century; will operate.

Miscellaneous Construction

Ark., Jonesboro—Levee—Fred C. Morgan, Indianapolis, Ind. has contract to construct levee in Cane Island Dist. No. 26.

D. C., Washington—Wharf—District Engineering Dept. will probably call for new bids for construction of wharf and offices of the Norfolk & Washington Steamboat Co. (Lately noted burned).

Fla., Daytona—Seawall, etc.—City will build new seawall along water front and around the enlarged City Park Island, 1½ mi. wall; 250,000 cu. yds. dredging; will open bids in about 6 or 8 weeks; has \$260,000 available from recent bond issue; Harrington, Howard and Ash, Engrs., Kansas City, Mo.

Fla., Fort Lauderdale—Canal, etc.—F. C. Elliott, Chief State Drainage Engr., Tallahassee, Fla. and the Trustees of the Internal Improvement Fund have direct supervision of all construction work of the main canals into the Everglades as well as the improvement of same; will also enlarge and deepen the North New River Canal which extends from Fort Lauderdale to Lake Okeechobee, will also build hard surfaced road paralleling the canal, which will eventually reach from Fort Lauderdale to Lake Okeechobee and probably form junction with a road which now extends from Lake Okeechobee to Palm Beach.

Fla., Miami Beach Sta. Miami—Bulkhead—Details under Road and Street Construction.

Fla., Miami—Piers and Docks—Details under Land Developments.

Fla., New Smyrna—Riverfront—City Commission contemplates improving river front, Chamber of Commerce co-operating in the movement.

Fla., Fort Pierce—Dredging—Lieut. Col. Gilbert A. Youngberg, U. S. District Engr. let contract to John Emile, Jacksonville, Fla., for the dredging of Fort Pierce Inlet and dredging from the inlet to the west side of Indian River, forming causeway from excavated material; project involves the removal of 1,000,000 cu. yds. of material to provide a 16-ft. channel to the Indian River; approximately 350,000 cu. yds. of soft material and about 60,000 cu. yds. rock are to be removed from the inlet and 646,000 cu. yds. of soft material for the channel to the Indian River.

Fla., Pensacola—Bulkhead—City Comsn. opened bids for construction of bulkhead at municipal wharf; F. Russ Smith lowest bidder at \$7873.09.

Fla., Tampa—Incinerator, Seawall—Details under Road and Street Construction.

Ga., Louisville—Swimming Pool—A. P. Little, Sec., Kiwanis Club, interested in the construction of small swimming pool; plans not completed.

La., New Orleans—Firewalls—Port Cmmrs. will construct fire walls at the Seventh St. and Market St. wharves; will soon let contracts.

Miss., Gulfport—Breakwater—Major Earl S. North, Dist. Engr. opened bids for the construction of breakwater, wall to be 1400 ft. in length, made of piles and stones; Lester F. Alexander Co., Inc., New Orleans, La. lowest bidder. (Lately noted.)

Mo., Columbia—Swimming Pool—W. Rogers Huelett, temporary chairman, Junior Commercial Club, interested in construction of municipal swimming pool.

Mo., St. Joseph—Swimming Pool—City will construct 320x180-ft. swimming pool, in Athletic Park, Noyes Blvd., concrete walls and bottom, estimated cost \$40,000; open bids some time in March; W. K. Seitz, City Engr. (Lately noted).

North Carolina—Inlet—North Carolina State Fisheries Comm., Charlotte, N. C., let contract to The Calkins Dredging Co., of Norfolk, Va., to open an inlet from Pamlico Sound to the ocean, distance of about 1½ mi., will be known as "New Inlet." (Lately noted.)

Okl., Okmulgee—Swimming Pool—Details under Land Developments.

Tex., Corpus Christi—Harbor Work—City Council and Nueces County Navigation Comsn. will receive plans for the deep water project and bids will be asked in near future. Address P. G. Lovenskiold, Mayor.

Tex., Fort Worth—Street Signs—City will open bids in about thirty days for supplying and installing system of street signs; has \$25,000 available. Address City Secretary Snow.

Tex., Taylor—Swimming Pool—City, G. D. Patterson, will receive new bids about March 1 for the erection of dressing room building in connection with swimming pool; Giesecke & Harris, Archts., Littlefield Bldg., Austin, Tex. (Lately noted).

Tex., Waxahachie—Suprs. of the Ellis County Levee Improvement Dist. No. 3, will receive bids until March 8 to construct additional levees, installing sluice gates and two 30-in. pumping units; containing approximately 30,000 cu. yds. earth; T. C. Forrest, Jr., Dist. Engr.

W. Va., Clarksburg—Lake—Details under Land Developments.

W. Va., Moundsville—Incinerator—City will construct incinerator; estimated cost from \$12,000 to \$15,000. Address The Mayor.

Miscellaneous Enterprises

Ala., Bessemer—Bessemer Galvanizing Works, A. J. Dyer, Pres., main office, Age Herald Bldg., Birmingham, Ala., has galvanizing plant under construction; designing, engineering, etc., being done by the company; have let following contracts for machinery and material: to Shepard Electric Crane & Hoist Co., Montour Falls, New York, for crane and hoist; to Brown Instrument Co., Phila., Pa., for pyrometer; to Nashville Bridge Co., Nashville, Tenn., for steel frame work for building and construction of 30 ft. kettle; to American Zinc Products Co., Greenville, Ind., for zinc roofing; to Tate-Jones Co., Pittsburgh, Pa., for oil burning equipment; will purchase locally brick, piping, sewer pipe, tanks, lumber, cement, concrete materials and miscellaneous hardware.

Ala., Jasper—The Burton Manufacturing

Co., plans enlarging plant, increasing capacity.

Ala., Mobile—Mobile Rosin Oil Co., capital \$50,000, incorporated by E. E. Zimmerman, Sidney Lowenstein and others.

Ala., Mobile—City Amusement Co., Inc., chartered by Irving L. Simon, J. A. Morrison and G. C. Outlaw.

Ala., Mobile—Mobile Paper Mills, capital \$200,000, incorporated by Jos. M. Walsh, E. D. Angell, G. L. Smith and others; to manufacture paper and by-products.

Ala., Montgomery—Alabama Loading Co., capital \$10,000, incorporated by A. M. Byrd, W. D. Mobley and others.

Fla., Jacksonville—Florida Paper Mills Co., subsidiary corporation of The Grass Fibre Pulp & Paper Corp., Gilbert Leach, Sec.-Treas., Leesburg, Fla., reported to have begun to clear ground for spur track into the grounds of the company from the Florida East Coast Railway Co.'s main line, about ¾ mi. long; are receiving bids for the steel work used in the erection of main plant and bids are being requested for the contract to build the main buildings. (Lately noted.)

Fla., Miami Beach Sta. Miami—Fire Alarm System—Details under Road and Street Construction.

Fla., Miami—Buena Vista Hotel Co., capital \$500,000, incorporated with W. W. Goucher, Pres.; H. I. Hansbrough, Sec.

Fla., Tampa—Fire Alarm System—Details under Road and Street Construction.

Ky., Ashland—Caldwell Construction Co., Inc., incorporated with Robt. T. Caldwell, Pres., 2nd National Bank Bldg.; H. Van Antwerp, Jr., Sec.; will erect one and two story building, construction by owners; materials all purchased. (Lately noted.)

Ky., Bowling Green—Win-Wal Hatchery, Inc., increased capital from \$25,000 to \$50,000.

Ky., Cynthiana—Cynthiana Construction Co. increased capital from \$40,000 to \$100,000.

Ky., Frankfort—Lexington Roller Mill Co., is having plans prepared by Leo L. Oberwarth, for rebuilding of plant occupied by Enid Glove Manufacturing Co.; burned at loss of \$40,000.

Ky., Leitchfield—Pioneer Manufacturing Co., capital \$25,000, incorporated by M. A. Arnold, J. W. Butler and others.

Ky., Louisville—Munn Construction Co., capital \$30,000, incorporated by W. G. Munn, Jr., C. H. Munn and others.

Ky., Louisville—J. G. and R. A. Wathen Co., capital \$100,000, incorporated by J. G. Wathen, A. L. Terry, Jr. and others.

Ky., Louisville—Standard Sanitary Manufacturing Co., general office, Pittsburgh, Pa., H. M. Reed, V.-P. and Gen. Mgr. of Factories, will erect brass foundry and 3 story office building; will probably let contract within ten days. (Previously noted.)

Ky., Louisville—Witchell Toilet Products Co., capital \$20,000, incorporated by J. B. Funk, F. W. Clark and others.

Ky., Pineville—Kinser Safety Coach Transit Co. increased capital from \$10,000 to \$40,000.

La., New Orleans—George W. Reese Advertising Agency, Inc. increased capital from \$10,000 to \$25,000.

La., Shreveport—Glassell-Wilson Co., Inc., capital \$24,000, chartered with Ashton Glassell, Pres.; John Glassell, Jr., Sec.

La., Shreveport—The Journal Publishing Co., has acquired the Travis St. school building at Travis and Marshall Sts. for its future home.

Md., Baltimore—Atlas Machine & Piston Ring Co., Inc., 1021 Cathedral St., capital \$50,000, chartered by Martin Kroschinsky, Jos. G. Katz and others.

Md., Baltimore—Rennous-Kleinle Division, Pittsburgh Plate Glass Co., E. H. Welbourn, Asst. Divisional Director, let contract to Charles L. Stockhausen Co., Gay and Water Sts., Baltimore to erect 4 story and basement; 140x60-ft. factory building, mill construction; also other contracts as follows: to Pittsburgh Des Moines Steel Co., Pittsburgh, Pa., for 50,000 gal. capacity steel tank; to the Automatic Sprinkler Co., New York, for sprinklers; to Creston E. Jackson Co., Cleveland, Ohio for heating system; to E. S. Lynch & Co., Baltimore, Md., for plumbing and to the Erie City Iron Works, Erie, Pa. for boilers; also installing 200 K. W. generator direct connected to Corliss engine; Company installing boiler and engine is under contract with the Industrial Power & Equipment Co., Baltimore, Md.; all interior wiring will be done by Company's forces.

Md., Baltimore—Atlantic Fruit & Sugar Co., 101 E. Fayette St., incorporated by Allan H. Richardson, Jos. F. Dempsey and others.

Md., Baltimore—Bloecher & Schaaf, Inc., 2550 Hollins St., capital \$60,000, incorporated by John J. Bloecher, Wilhelm Schaaf and others.

Md., Baltimore—Bulk Storage Construction Co., 19 Gullford Ave., capital \$200,000, incorporated by Maurice A. Long, John S. Johnson and others.

Md., Baltimore—Chesapeake Waste Paper Co., 410 N. Gullford Ave., increased capital from \$25,000 to \$50,000.

Md., Baltimore—Craig Sales Co., Inc., 503 "Phoenix Bldg., capital \$10,000, incorporated by Walter D. Craig, John H. Tarr and others.

Md., Baltimore—John Kenny Sons, Inc., 221 Greene St., capital \$25,000, incorporated by Michael J. and Paul A. Kenny and others.

Md., Baltimore—Maryland Radio Corp., Keyser Bldg., capital \$25,000, chartered by J. Wardall Greene, Brodnax Cameron and others.

Md., Baltimore—Mester & Mantz Packing Co., Inc., 410 E. Pratt St., capital \$25,000, incorporated by Edward H. Mester, Geo. C. Mantz and others.

Md., Baltimore—N. Waldo Harrison, Inc., 109 N. Carey St., incorporated by N. Waldo Harrison, Clarence Raymond Ward and others.

Md., Baltimore—Rock Crystal Co., Gwynns Falls Rd., capital \$10,000, incorporated by Frank D. Pullin, Jos. W. Hellman and others.

Md., Salisbury—The Lar-Nel Furniture Co., let contract to Mr. Shockley to erect 24x45-ft. addition to be used for storage purposes.

Md., Baltimore—Tangent Film Co., 2132 Oak St., capital \$50,000, incorporated by Edmund A. Murphy, John K. Sparrow and others.

Md., Baltimore—The Bank Construction Co., 407 Stewart Bldg., capital \$200,000, incorporated by Jos. Bank, Wm. Cameron and others.

Md., Baltimore—The Maryland Manufacturing Co., 303 S. Sharp St., capital \$25,000; incorporated by James Cohen, Harry Blumenthal and others.

Md., Baltimore—The William Garthe Co., 2318 Oak St., capital \$50,000, incorporated by John Beeuwkes, John Henry Skein and others.

Md., Baltimore—People's Lighting Fix-

ture Co., 2 N. Frederick St., capital \$50,000, incorporated by Martin Dorman, Harry Fisher and others.

Md., Baltimore—Physicians & Surgeons Building, Inc., 706 Continental Bldg., chartered by Albert R. Stuart, W. W. Harrison and others.

Miss., Biloxi—Choaker Taxi Cab Co., capital \$10,000, incorporated by P. F. Martin, Charles Weber and others.

Miss., Clarksdale—McLean Ice Cream Co., capital \$15,000, incorporated by J. S. Mays, O. M. Robbins and others.

Md., Baltimore—Stoll & Pyles, Inc., Patapasco Ave., and 6th St., Brooklyn, Baltimore, capital \$100,000, chartered by E. Wilbur Stoll, Victor A. Pyles and others.

Miss., Hazlehurst—Hazlehurst Ice Factory Manufacturing Co., reported to establish creamery plant, installing a complete skimming, separating and churning outfit, estimated cost \$10,000.

Miss., Isola—G. G. Hardware Co., incorporated by J. H. Goldberger, R. F. Green and others.

Miss., Laurel—R. C. Gaddis Co., capital \$30,000, incorporated by R. C. Gaddis, John Williams and others.

Mo., Kansas City—Film Add Investment Co., capital \$50,000, incorporated by M. J. Miller, Sam Levin and others.

Mo., Kansas City—Western Milk Powder Co., capital \$20,000, incorporated by Meyer S. Glatt, A. C. Nichols and others.

Mo., Kansas City—National Equipment Co., capital \$10,000, incorporated by R. R. Nelson, Louis Brockmiller and others.

Mo., Kansas City—Bishop Contracting Co., incorporated by F. W. Bishop, 550 Brompton Ave., R. M. Kennedy, 1304 E. 59th St., both Chicago, Ill.

Mo., Kansas City—The Todd Co., capital \$10,000, incorporated by C. S. Todd, W. E. Lindemuth and others.

Mo., Kansas City—Honey Dew Gum Co., capital \$25,000, incorporated by J. H. Smith, J. A. Whitehead and others.

Mo., Mountain Grove—Geo. M. Douglas Hardware Co., capital \$20,000, incorporated by Geo. M. and J. A. Douglas and others.

Mo., St. Louis—Analytical Laboratories, Inc., capital \$10,000, incorporated by D. Dillon, A. McClean and others.

Mo., St. Louis—Cowdery Construction Co., capital \$25,000, incorporated by E. A. Cowdery, H. R. Coleman and others.

Mo., St. Louis—Mound City Coffee Co., increased capital from \$24,000 to \$40,000.

Mo., St. Louis—Missouri Publication & News Co., capital \$16,000, incorporated by Wayne Dameron, E. C. Reed and others.

Mo., St. Louis—Monarch Investment Co., incorporated by F. P. Ryan, B. S. Halloran and others.

Mo., St. Louis—Evelyn Horton Manufacturing Co., incorporated by E. I. N. Horton, J. G. Horton and others.

Mo., St. Louis—Triangle Composition Co., capital \$34,000, incorporated by A. E. Gross, R. E. Sission and others.

Mo., St. Louis—Gernhart Manufacturing Co., Inc., capital \$100,000, chartered by A. W. Gernhart, 4231 Holly Ave.; G. A. Lubeley, 4507 Holly Ave. and others.

Mo., Springfield—Land Bank Building Co., capital \$125,000; incorporated by Joe Gold, P. J. Fahy and others.

Mo., St. Louis—The Hor-Tan-A, Inc., chartered by E. I. M. Horton, R. W. Powell and others.

Mo., St. Louis—White Star Laundry Co.,

incorporated by J. W. Wexler, L. Merrins and others.

N. C. Bessemer City—Bessemer Hardware Co., capital \$25,000, incorporated by S. A. Wilkins, Dallas; S. B. Hobbs and John Ormond, Bessemer City.

N. C., Durham—Liggett & Myers Tobacco Co., gen'l. office 4241 Folsom Ave., St. Louis, Mo., let contract to John P. Pettyjohn & Co., Lynchburg, Va., to erect \$250,000 redrying and steaming plant, 112x312 ft.; brick and steel construction; Heard & Chesterman, Archts., Lynchburg, Va. (Lately noted.)

N. C., Gastonia—Michael & Bivens, increased capital from \$67,000 to \$100,000.

N. C., Goldsboro—Builders Supply Co., Inc., chartered with N. E. Robinson, Pres., increased capital from \$48,200 to \$98,200.

N. C., Greensboro—City Council authorized purchase of 59 acres of land for erection of abattoir; \$65,000 available. (Previously noted.)

N. C., Greenville—Electric Service & Supply Co., Inc., capital \$25,000, chartered by C. F. Hardee, J. D. Murphy and others.

N. C., High Point—Sartin Dry Cleaning Co., capital \$100,000, incorporated by H. M. Taylor, J. P. Sartin and others.

N. C. Winston-Salem—Carolina Supply Co., capital \$50,000, incorporated by R. S. Ralford, G. C. Hall and others.

N. C., Winston-Salem—Powell Paving Co., capital \$100,000, incorporated by W. H. and J. D. Powell both Columbia, S. C., I. E. Carlyle, Winston-Salem and others.

N. C., Winston-Salem—Sentinel Printing & Publishing Co., 229 N. Liberty St., will repair buildings lately noted burned; 24x90 ft.; mill construction; bids in but contract not let.

Okla., Miami—Miami Creamery Co., Thos. O. McGehee, Pres., Box 425, will erect 60x25 ft. addition to present ice cream manufacturing plant; fireproof; daily capacity 300 gals. ice cream; will install 14 ton refrigerating unit and ice cream equipment; A. H. Beighley, Contr., Miami. (Lately noted.)

Okla., Ponca City—Ponca City Publishing Co., Clyde E. Muchmore, Sec., let contract to O. F. Keck, Ponca City, to erect 2 story and basement publishing house; 45x140 ft.; basement and first floor fireproof; cost \$65,000; C. H. Woodruff, Archt., 401 Reynolds Bldg., Ft. Worth, Tex. (Lately noted.)

Okla., Tulsa—Mitchell-Smith Co., capital \$50,000, incorporated by Glenn J. Smith, Edwin C. Johnson and others.

S. C., Spartanburg—Spartanburg Herald Co. will vote on March 17 on increasing capital from \$30,000 to \$100,000 and changing name to Spartanburg Herald-Journal Co.

S. C., Spray—Hannock Hardware Co., capital \$10,000, incorporated by Allen W. Hannock, Draper, N. C.; Bennett Nooe, Jr., Leakesville, N. C.

Tenn., Chattanooga—Archer Paper Co., capital \$150,000, incorporated by John Stagmaier, John W. Marshall and others.

Tenn., Chattanooga—Chattanooga Bottle & Glass Mfg. Co., Alton Park, Chattanooga let contract to Hartford Empire Co., Hartford, Conn., to install new machinery for manufacturing bottles, daily output 850 gross. (Lately noted.)

Tenn., Clarksville—J. W. Rudolph & Bros., incorporated by J. W. Rudolph, M. Leech and others.

Tenn., Cookeville—Putman County Truck Growers Assn., W. H. Barr, Sec., will erect sweet potato storage house with capacity of about 12,000 bu.; plans not decided. (Lately noted.)

Tenn., Humboldt—Hudson Harrow Co., capital \$20,000, incorporated by J. W. Hudson, C. L. Nichols and others.

Tenn., Johnson City—C. C. Bacon Building Co., capital \$25,000, incorporated by J. W. Fite, T. C. Cook and others.

Tenn., Johnson City—Chronicle Publishing Co., Guy L. Smith, Pres., has acquired Johnson City Staff; will operate.

Tex., Bay City—Columbia Rice Co., capital \$15,000, incorporated by T. J. Poole, G. R. Burke and others.

Tex., Cleburne—Coco Cola Bottling Works on North Monroe St. will erect bottling works.

Tex., Corsicana—Little Teaming & Construction Co., capital \$10,000, incorporated by J. K. Wood, I. C. Little and others.

Tex., Dallas—Fairlyland Amusement Co., lately noted incorporated with \$50,000, by L. M. Kirks, let the following contracts for construction of amusement park: to Davis-Johnson Lumber Co., for 2,000,000 ft. of lumber; to Cherry Electric Co., at \$40,000 for electrical work; to Warren F. Daniel for drilling an artesian well; to Ready Road Construction Co. for grading excavating and paving; invite bids on buildings, general entertainment features, etc.; George Teubner, Constr. Engr. (See Machinery Wanted—Amusement Park Devices).

Tex., Dallas—Little Theater Co., capital \$20,000, incorporated by Louis Lipsitz, Elmer Scott and others.

Tex., Fort Worth—Goodridge-Williams Printing & Stationery Co., capital \$50,000, incorporated by C. F. Goodridge, J. W. Williams and others.

Tex., Fort Worth—North Texas Cattle Co., capital \$25,000, incorporated by Wm. Bevans, G. R. White and others.

Tex., Fort Worth—The Dunn-Locke Manufacturing Co., increased capital from \$40,000 to \$50,000.

Tex., Houston—Myer Electric Manufacturing Co., capital \$10,000, incorporated by E. A. Myer, C. C. Staiti and others.

Tex., Palestine—Laundry—M. L. and G. G. Boyd will erect brick laundry building; fireproof construction; install modern machinery; will soon call for bids; Theo. S. Maffitt, Archt.

Tex., San Antonio—La Prensa Publishing Co. let contract to A. Schweitzer, San Antonio, to remodel building on Santa Rosa Ave.; cost \$20,000.

Tex., Sherman—Producers' Co-operative Storage Co., capital \$10,000, incorporated by H. N. Chapman, Arthur Bounds and others.

Tex., Texarkana—Texarkana Hotel Co., capital \$125,700, incorporated by A. C. Stewart, J. J. King and others.

Tex., Wichita Falls—Landot Hill Co. increased capital from \$30,000 to \$40,000.

Va., Cedar Bluff—Goodwin Automatic Fire Alarm Corp., capital \$50,000, incorporated with James E. Goodwin, Pres., Cedar Bluff; Robt. W. Harman, Sec., Tazewell, Va.

Va., Norfolk—Commercial Docks, Inc., capital \$150,000, chartered with S. S. Keellings, Pres.; J. W. Easter, Sec.

Va., Norfolk—Millner Dairy Co., Inc., increased capital from \$100,000 to \$150,000.

Va., Portsmouth—Armistead Corp. increased capital from \$150,000 to \$350,000.

Va., Norfolk—Southern Press, Inc., 442 Monticello Ave., lately noted incorporated with \$50,000 capital, G. A. Garey, Pres.; has plant for printery; let contract to American Type Founders Co., Richmond, Va., for automatic feeder.

W. Va., Huntington—Douglas Theatre, Inc., capital \$10,000, chartered by J. A. Scott, W. H. Brown and others.

W. Va., Wheeling—Wheeling Sanitary Manufacturing Co., J. E. Wright, Pres., increased capital from \$750,000 to \$1,000,000.

Motor Cars, Garages, Tires, Etc.

Ala., Tuscaloosa—Tuscaloosa Paige Motor Co., capital \$10,000, incorporated by W. F. Douthitt, E. N. Boyles and others.

Fla., Fort Lauderdale—Garage—A. A. Surbey has permit to erect 2 story, 112x48-ft. garage building on the Dixie Highway.

Fla., Leesburg—Garage—Butler & Mattox, has acquired 110x104 ft. site on Magnolia St., will erect 2 story sales and service building; brick, stucco and concrete.

Fla., Miami—Filling Station, etc.—Standard Oil Co., A. A. Lingg, Agent, has plans for the erection of filling and service station, at Alton Rd. and 15th St.; building to be finished in stucco with cement tile roof; estimated cost \$5000.

Fla., Punta Gorda—Filling Station—Chadwick Brothers, have acquired site corner Mariam Ave. and Nesbit St., will erect filling station.

Fla., Tampa—Frank A. Carpenter will erect \$18,000 garage and store building at Florida Ave. and Hillsboro St.

Ky., Harlan—Harlan Buick Co., capital \$20,000, incorporated by C. H. Baughman, G. H. Black and others.

Ky., Louisville—Keller Auto Body Co., incorporated by T. P. Roth, G. C. Keller and others.

Ky., Maysville—Ford Motor Co., Detroit, Mich., reported as contemplating establishing manufacturing plant; also terminal for railroad.

Ky., Whitesburg—Superior Motor Co., capital \$15,000, incorporated by Olney D. Hammons, J. F. Sergeant and others.

La., Monroe—Cleveland Motor Co., Inc., capital \$50,000, incorporated by W. S. Terrell, H. L. Cleveland and others.

La., Ruston—Garage—B. F. McLure & Co., will erect 1 story, 30x85-ft. garage building, brick and cement construction, cement floors, composition roof, steel and cement foundations; estimated cost \$7500; construction by owner.

Md., Baltimore—Automotive Service Co., Centre St. at Fallsview, capital \$25,000, incorporated by E. T. Jones, J. Harry Wentz and others.

Md., Baltimore—Baltimore Auto Exchange, Inc., 1706 N. Charles St., capital \$20,000, incorporated by Edward H. Healy, Philip E. Buckley and others.

Md., Baltimore—Dispatch Motor Service, Inc., 1429 Maryland Ave., capital \$35,000, incorporated by G. Gardner Francis, Theo. C. Fifer and others.

Md., Baltimore—Garage—Daylight Realty Co., Berry S. Applestein, Sec., 10 S Patterson Park, Ave., reported to erect 2 story, brick steel and stone garage and service station; acquired site with 256 ft. frontage on Lincoln Highway (Monroe and Prestman Sts.) estimated cost \$75,000.

Md., Rock Hall—Rock Hall Motor Co., incorporated by G. Ellsworth Leary, John Hill and others.

Miss., Batesville—Irby Motor Co., incorporated by D. S. Irby, H. J. Perkins and others.

Miss., Laurel—Southern Automobile Co., increased capital from \$40,000 to \$100,000.

Mo., St. Louis—Arrow Cab Co., capital \$15,000, incorporated by J. Estes, C. H. Lott and others.

Mo., St. Louis—Federal Motor Truck Co., capital \$20,000, incorporated with Thos. E. Reeder, Pres., R. W. Ruddon, Asst. Sec.; Elmer Gates, Principal Agt., 3615 Forest Park Blvd.

Mo., St. Louis—Commodore Garage Co., capital \$100,000, incorporated by W. F. Allen, Orman J. McCawley and others.

Mo., St. Louis—Garage—Star Cab Co., 2319 Chestnut St., capital \$25,000, incorporated by Richard Kent, Alfred Smith and others.

Mo., St. Louis—Townsend-Bohn Motor Car Co. will occupy 100x136 ft. building corner Kingsland and Olive St.; estimated cost \$85,000; to be erected by The Butts Realty Co., under supervision of John C. Stevens, Archt.

N. C., Charlotte—Auto Parts & Salvage Co., capital \$25,000, incorporated by Alex Little, A. J. Little and others.

N. C., Lumberton—Clover Tire Manufacturing Co., capital \$75,000, incorporated by J. W. Sellers, I. L. McGill and others.

N. C., Wilmington—Chipleys Universal Motor Co., Inc., increased capital from \$50,000 to \$250,000.

N. C., Wilmington—Chipleys Universal Motor Co., Inc., increased capital from \$50,000 to \$150,000.

Okla., Shawnee—The Shawnee Motor Supply Co., increased capital from \$25,000 to \$35,000.

S. C., Anderson—Anderson Overland Co., capital \$20,000, incorporated by Feaster I. Jones, Paul E. Bradshaw and others.

Tex., Denison—Davis Motor Co., capital \$40,000, incorporated by E. E. Davis, E. S. Wood and others.

Tex., Fort Worth—Velle Motor Sales Co., increased capital to \$20,000.

Tex., Houston—The Mid-Continent Rubber Co., W. D. Horton, Pres., Bankers Mortgage Bldg., reported to erect \$5,000,000 plant for the manufacture of automobile tires, etc.; building will probably be 3 stories and basement.

Tex., San Marcos—Garage—Joe Dickens has under construction a 28x90-ft. garage building corner West San Antonio and Fredericksburg St., hollow tile with steel and concrete roof, concrete floor, steel window sash, fireproof; Dan Kennedy, in charge of work.

Tex., Wichita Falls—Filling Station—American Refining Co. let contract for the erection of \$15,000 filling station.

Va., Blacksburg—Blacksburg Motor Co., Inc., (lately noted incorporated, capital \$30,000) organized with W. L. Crumpacker, Pres.; R. C. Heavener, Sec.-Treas.; let contract to Hoback & Painter at \$18,500 to erect 40x90-ft. building, brick, steel and concrete construction, concrete and wood floors, built up asphalt roof, having 11,700 ft. floor space; A. T. M. Rust, Archt., Christiansburg, Va.

Va., Bristol—City Service Station, capital \$10,000, incorporated with Frank L. Kilgore, Pres.; R. G. Barnhill, Sec.

Va., Norfolk—Three States Motor Corp., capital \$50,000, incorporated with W. J. Casterton, Pres.; M. Kelley, Sec.

Va., Norfolk—Director of Public Works, Walter H. Taylor, 3rd, recommends the laying of water pipe line to connect with proposed plant of Ford Motor Co. in Newton Park; estimated cost \$14,000; plans for pipe line have been made but date of construction not set; gas mains to connect with plant will cost approximately \$25,000 and funds for construction will probably be advanced by the city.

W. Va., Charleston—Garage, etc.—N. Jar-

rett Realty Co., will erect automobile show room and garage at 602 Virginia St., estimated cost \$32,275.

W. Va., Clarksburg—Superior Motor Co., capital \$25,000, incorporated by Geo. C. McKinley, Hugh G. Smith and others.

W. Va., Huntington—Hampton Automobile Products Co., capital \$10,000, incorporated by J. M. Turner, C. A. Warden and others.

W. Va., Huntington—Central Motor & Supply Co., capital \$25,000, incorporated by F. E. Dean, W. F. Jones and others.

W. Va., Philippi—Home Auto Co., capital \$10,000, incorporated by R. W. Johnson, N. S. Parker and others.

W. Va., Sistersville—Service Garage, organized with G. W. Thomas, Pres.; R. B. Ash, Sec., will erect 2 story, 60x120 ft. fireproof building, concrete floors; soon open bids; install heating, lighting and elevator. (Lately noted.)

W. Va., Welch—Coalfield Truck Co., capital \$25,000, incorporated by J. Logan Hill, C. C. Scott and others.

Railways

Ark., Prescott—Prescott & Northwestern Railroad has been authorized by the Interstate Commerce Commission to build its proposed extension of 26 mi. into the Nevada County oil field. W. N. Bemis, Prescott, Ark., is president.

Tex., Marshall—Marshall, Elysian Fields & Southeastern Railroad has been authorized to build an extension of about 12 mi. from Elysian Fields to Waskom, Tex. M. Turney, Marshall, Tex., is Gen. Mgr.

Railway Shops, Terminals, Round-houses, Etc.

Tenn., Memphis—Union Railway, R. M. Dozier, Pres., will rebuild shop, burned at loss of \$30,000.

Road and Street Construction

Ala., Alabama City—City plans paving with asphalt 4th St. from Kyle Ave. at Carterburg Station to Forest Ave.

Ala., Anniston—City let contract to Morgan-Hill Paving Co., Birmingham at \$150,000 for street improvement, including paving, curbing and guttering 1-mi. Oxford road, between 8th and 9th Sts., and Oxana Hotel; also 10th St. from Leighton Ave. to Hillside Cemetery; Christine Ave. from 10th to 16th, and Wilma Ave. from 13th to 19th.

Ala., Cordova—Indian Head Mills of Alabama, plans paving main streets through mill town; City will complete paving through city. Address The Mayor.

Ala., Jasper—City plans paving with concrete 6 blocks on Front St. Address The Mayor.

Ala., Montgomery—City plans receiving bids about March 25 for 5194 sq. yds. various types street paving; estimated cost \$13,000; W. A. Cone, Engr.

Ala., Selma—State Highway Comm., Montgomery, Ala., plans graveling 8 mi. Barkers Mill road from Selma to Ocmulgee Creek.

Fla., Bartow—City plans preparing base for increased hard surfaced street area; C. V. Turner, City Mgr. (Previously noted voted \$75,000 bonds.)

Fla., Bushnell—Sumter County plans building 9 roads as follows: East and west of Oxford to Lake and Citrus counties; west of Wildwood to Citrus County; Coleman to Bamboo near Lake County line; Sumterville to outlet of Lake Panasoffkee; Bushnell to Weeds Landing, Citrus County; Bushnell

to Berdell, via St. Catherine, on Hernando line completing State road No. 123; Tarrytown to Lake County line at Sloans Ridge; Center Hill to Norton's Crossing on Lake Line; voted \$650,000 bonds. Address County Commissioners.

Fla., De Land—Volusia County reported planning to surface 2 roads as follows: From DeLeon Springs through De Land to Harden Ferry, on St. Johns River, opposite Sanford; 10 mi. from end of De Land brick paving to De Leon Springs, where it connects with highway recently completed by State Road Dept.

Fla., Fort Lauderdale—Details under Miscellaneous Construction.

Fla., Fort Meade—City plans 4 mi. street paving; contemplates voting on \$23,000 bonds; total cost \$69,000; property owners paving two-thirds. Address The Mayor.

Fla., Lakeland—City Comm., contemplates widening business streets.

Fla., Live Oak—City plans improvements as follows: Street paving; extension of water mains and pipes, sewers, etc.; building bath house and equipping; will vote March 25 on \$168,500 bonds. Address The Mayor.

Fla., Miami Beach Sta., Miami—City plans municipal improvements; voted \$307,000 bonds as follows: Extend and develop water-works, \$100,000; sanitary sewers, \$50,000; storm sewers, \$20,000; bridge over Collins Canal at Meridian Ave., \$13,500; concrete bulkhead, \$17,500; park improvements, \$25,000; fire alarm system and fire station, \$40,000; paving streets, \$40,000. Address The Mayor.

Fla., Miami—Details under Land Developments.

Fla., Miami—Nelson, Bullock Nelson Co., let contract to T. B. McGahey, to pave streets in Sunshine Park, between 7th Ave. and 8th Court, and 24th and 25th Sts.

Fla., Milton—Santa Rosa County Commrs. plan building Milton-Camp Walton road; \$26,000 available; also plan Milton-Brewton road.

Fla., Tampa—City plans municipal improvements as follows: Open, widen, pave streets and parkways; construct viaduct on Lafayette St. at Seaboard Air Line tracks; build bridge; auditorium; public wharves and sheds; establish parks; install sanitary and storm sewers; improve fire alarm system; construct incinerator, and extend existing seawall; plans voting April 15 on \$2,840,000 bonds; Perry C. Wall, Mayor.

Fla., West Palm Beach—City received low bid from Myers Construction Co., at \$145,380 to grade, pave with penetration pavement, lay curbs, on Belvedere road, and extend Belvedere road 2 mi. west to city limits; also Southern Blvd., from Dixie Highway to lake; also build bridge to carry Belvedere road across Stub Canal.

Fla., West Palm Beach—City plans paving various streets, including boulevard along St. Lucie River waterfront; contemplates voting on \$25,000 bonds. Address The Mayor.

Fla., West Palm Beach—Palm Beach County will receive bids until March 5 to oil hard surfaced lateral roads in County, including extension of Ocean Blvd., from Boca Ratone southward to end; estimated cost \$50,000; C. H. Holstlaw, County Engr.

Ga., Columbus—City will receive bids until March 4 to pave Talbot Ave. from 7th to 12th Aves.; 10,650 sq. yd. 3½-in. brick pavement on 4-in. Magnolia cement concrete base; 2700 lin. ft. cement concrete gutter; 100 lin. ft. cement concrete combined curb and gutter; 11,270 sq. yd. plain cement con-

crete pavement; 100 lin. ft. plain cement concrete curb; 11,270 sq. yd. plain cement concrete pavement in accordance with Vibrolithic Method; 100 lin. ft. plain cement concrete curb; plans etc. from Supt. of Public Works; Walter A. Richards, City Mgr.

Ga., Dalton—City will receive bids in March for 1¼ mi. street paving, including Thornton Ave. from Walnut Ave. to Cleveland St. along Cleveland to Selvidge, on Selvidge to Nashville, Chattanooga & St. Louis railway crossing; 30-ft. wide asphalt on concrete base; cost \$80,000. Address The Mayor.

Ga., Savannah—Details under Land Developments.

Louisiana—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, will receive bids until March 20 to improve 3 sections of roads, as follows: State Project 393, Sec. B, Grant Parish, 7.92 mi. Colfax-Pollock road, from Pollock west through Bentley; Winn Parish, 2 sections; State Project No. 366-B, 7.41 mi. Winnfield-Chestnut Highway, from point about 3 mi. north of Winnfield to L. & A. R. R. crossing at Calvin; No. 366-C, 8.35 mi. Winnfield-Chestnut Highway, from railroad crossing at Calvin to Saline Bayou; plans, etc., on file; J. F. Fourmy State Highway Engr.

La., Franklin—St. Mary Parish Police Jury, Chas. N. Frost, Pres., plans hard-surfacing road between Louisa and Patagonia.

La., Monroe—City plans paving following streets: N. 5th between DeSiard and Stubbs; Apple between Jackson and St. 2nd St.; K. between 3rd and 4th; Hall between DeSiard and Grammont, and Grammont and Layton Aves.; L. between Front and 3rd and S. 4th between Layton and Ouachita Aves. Address The Mayor.

La., New Orleans—Comm. Council awarded contracts at \$1,000,000, as follows, for sub-surface, drainage and surfacing; for sub-drainage to A. P. Boh & Co., Grasser Construction Co., Williams Engineering Co., Mike Mitchell & Sons, John O. Chisolm, H. W. Bond & Brothers, Hampton Reynolds; for paving to Craven & Long; and Globe Construction Co.

La., Shreveport—Caddo Parish Police Jury, will receive bids until March 20 for 10 mi. highway paving; plans, etc., from J. T. Bullen, Parish Engr.

Md., Baltimore—Board of Awards, Mayor Howard W. Jackson, Pres., let contract to Arundel Construction Co., Knickerbocker Bldg., at \$28,000 to repair cobbled streets and alleys.

Md., Baltimore—Details under Land Developments.

Md., Lonaconing—Town plans street improvement; contemplates \$25,000 bond issue. Address The Mayor.

Md., Rockville—Town plans extending Commerce Lane from Dixie Tavern to intersection of Bridge and High Sts. Address The Mayor.

Miss., Port Gibson—State Highway Comm., Jackson, Miss., plans building hard-surfaced highway from Warren County line on north to Jefferson County on south, through Claiborne County.

Missouri—State Highway Dept., Jefferson City, plans building 20 road projects as follows: State Project, Route 3—Greene County, 2 sections from Springfield north and south; 2 mi. 18-ft. concrete pavement; 2 mi. earthwork; Route 29, Sec. 2—Worth County, 3.579 mi. 30-ft. graded earth, from Grant City to Stanberry; Route 6, Sec. 33A—Sullivan County, 2.062 mi. 16-ft. gravel surface, from Milan to Kirksville; Route 26—Benton County, 3 mi. 30-ft. graded earth, from Cole Camp to Clinton; Route 1—McDonald County,

5 mi. 30-ft. graded earth, from Anderson south; Route 25—Jefferson County, 1 mi. 16-ft. gravel, surface, from Festus to St. Genevieve; Route 51—Perry County, 4 mi. 16-ft. gravel surface, from Perryville north; Route 5—Putnam County, 4-mi., 30-ft., graded earth, from Unionville to Milan; Route 5—Linn County, 8 mi. 30-ft. graded earth from Linneus to Laclede.

Route 47, Sec. 3—Lincoln County, 2.67 mi. 16-ft. gravel surfacing from Troy to Warrenton; Route 36—Barton County, 4.5 mi. 30-ft. graded earth, from Springfield north and south; Route 55—Scott County, 5 mi. 16-ft. gravel and 30-ft. graded earth, from Benton to Charleston; Federal and State Project No. 211B—Stoddard County, 2.7 mi. 9-ft. concrete and 7-ft. gravel surface from Bloomfield to Advance; Pulaski County, 2 sections; Route 17, 3 mi. 30-ft. graded earth from Iberia to Waynesville; Route 28, 2.5 mi. 30-ft. graded earth from Waynesville to Dixon; Route 25—St. Genevieve County, 1 mi. 16-ft. gravel surface, from St. Genevieve to Festus; Route 15—Miller County, 5 mi. 12-ft. gravel surface from Jefferson City to Linn Creek; Route 26—Vernon County, 4 mi. 30-ft. graded earth from Nevada to Osceola; Route 39—Dade County, 3 mi. 30-ft. graded earth from Greenfield to Pennsboro; B. H. Plepmeier, Ch. Engr.

Mo., Joplin—City plans laying about 1 1/4 mi. sidewalks on 4th St. from Gray to Shifferdecker Aves.; O. P. Mahoney, Commissioner of Streets and Public Improvements.

Mo., St. Louis—City plans widening Olive St. to 100 ft., from 12th Blvd. to Channing Ave. Address The Mayor.

Mo., St. Louis—Board of Public Service received low bids totaling \$422,107, to re-pave 7 streets as follows: Webb-Kunze Construction Co., for asphalt, Garrison from Cass to Montgomery; Laclede Ave. from Leffingwell to Grand; Maffit from Belt to Clara; Sacramento from Belt to Turner; Stoddard from Jefferson to Glasgow; from Trinidad Asphalt Manufacturing Co., for asphalt Willite; Meramec St. from 38th to Gravois; Pendleton from Easton to Kennerly; from Granite Bituminous Paving Co., for bitulithic; Kossuth Ave. from Prairie to Fair; Loughborough Ave. from Colorado to Field; Deber Place from Southwest to January.

Mo., Springfield—City will widen Traffic St. from Jefferson to Campbell Sts. Address City Engr.

N. C., Ahoskie—City plans street paving; will receive bids in about 90 days; Carolina Engineering Co., Engrs., Wilmington, N. C.

N. C., Morganton—City plans street improvement; Warren H. Booker, Const. Engr., Charlotte; S. B. Howard, Res. Engr.

N. C., Morganton—Town will receive bids soon to hard surface 50,000 sq. yd. streets; approximate cost \$150,000; Chas. Lane, Town Clk.; Warren Booker, Engr., Charlotte, N. C. (Lately noted voted bonds.)

N. C., Murphy—Cherokee County plans grading 2 roads as follows: 20 mi. through Shoal Creek Township; 7 mi. in Notley Township. Address County Commrs.

N. C., Wadesboro—City plans street paving including 1 mi. of Depot road. Address The Mayor.

N. C., Wilmington—Details under Land Developments.

Okla., Chickasha—Grady County plans building hard surfaced road and bridges; will vote April 4 on \$1,000,000 bonds. Address County Commrs. (Lately noted to vote March

Okla., El Reno—City received low bid from Canady Construction Co., Tulsa, at \$3.43 4.)

for paving, \$1.50 for curb and gutter and \$2.00 for double gutter on streets in Dist. 10-A.

Okla., Holdenville—City plans paving 5 blocks on N. Bullitt St.; 24-ft. wide, concrete. Address The Mayor.

Okla., Miami—Ottawa County plans building 2 mi. hard surfaced road from Afton west. Address County Commrs.

Okla., Newkirk—Kay County Commrs., appropriated \$50,000 to hard surface roads in vicinity of Tonkawa.

Okla., Oklahoma City—City Comm. let contracts for street paving as follows: Western Paving Co., for asphalt paving, 29th St. from Military to Western Ave., \$12,115.10; 12th, from McKinley to Blackwelder Ave., \$9,765.85; Klein Ave. from Main to Reno, \$22,234.20; M. A. Swatek & Co., for Willite, 44th St. from McKinley to Blackwelder, \$6108.50; Blackwelder from 25th to 26th, \$3068.25; Reinhart & Donovan Paving Co., for concrete, Pearl St. from Central Ave. to Byers \$12,176.

Okla., Oklahoma City—Oklahoma County let contracts for 2 sections of roads as follows: To M. A. Swatek Co., at \$50,000 to pave with vertical fibre brick, on 5-in. concrete base, 2 mi. East G Ave.; to Green-Beekman Construction Co., at \$92,111, to pave with vertical fibre brick on 5-in. concrete base, 2 1/2 mi. Eastern Ave. from 10th to Lincoln Park. Address County Commrs.

Okla., Tulsa—Details under Land Developments.

Okla., Watonga—Details under Bridges, Culverts, Viaducts.

S. C., Columbia—Seaboard Air Line Ry. Co., W. D. Faucette, Ch. Engr., Norfolk, Va., plans paving east side of depot between Gervais and Lady Sts.

S. C., Spartanburg—City will receive bids until March 19 for 8 mi. cement sidewalks, curb and gutters combined; P. J. O. Smith, City Engr.

S. C., Spartanburg—City plans street improvement; will vote March 18 on \$250,000 bonds. Address The Mayor.

Tenn., Blountville—State Highway Dept., Nashville, will probably receive bids within next 30 days to build section of Lee Highway, between Bristol and Blountville; John R. Snow, Sullivan County Road Commr.

Tenn., Dandridge—Jefferson County plans building section of road from New Market to Strawberry Plains; sold bonds. Address Engr. Von Zuber, Fort Worth.

Tenn., Jackson—City plan municipal improvements as follows: Street improvements, \$500,000; enlarge water plant, \$150,000; 5 white public schools, \$115,000; erect city hall, \$125,000; will vote March 25 on \$890,000 bonds; Lawrence Taylor, Mayor.

Tenn., Tiptonville—City receives bids until Feb. 28 to improve about 5300 ft. on Church St.; 11,500 sq. yds. plain cement concrete pavement; 10,600 lin. ft. combined curb and gutter; 7000 cu. yds. excavation; also sewers, catch basins, etc.; plans, etc., from A. E. Markham, Mayor.

Tex., Alpine—Brewster County Commrs., let contract to Gordon Alvis, Winnsboro, Texas, at \$76,948, for 16 mi. State Highway No. 3 Sec. C, between Alpine and Marathon.

Tex., Angleton—Brazoria County will receive bids until March 11 for 10.88 mi. State Highway, from Cheango to north line of County; E. N. Gustafson, County Engr.; J. T. Loggins, County Judge.

Tex., Austin—Travis County plans improving 6 roads as follows: Grading, constructing reinforced concrete drainage structures and gravel surface 16-ft. wide, 6 mi. DelValle

Colton-Creedmore road from Onion Creek to Colton to Highway No. 29, near Creedmore, estimated cost \$57,000; concrete drainage structures on following: 7 mi. road from Manor to Webberville, estimated cost \$11,000; grade 5 1/2 mi. Jollyville road, estimated cost \$12,000; 5 1/2 mi. Evelyn road, estimated cost \$20,000; 2 1/2 mi. 16-ft. gravel surface Govalle road; estimated cost \$11,000; reinforced concrete, and gravel surface 16-ft. wide Turnerville road from State Highway No. 2 to State Highway No. 29, through Turnerville, estimated cost \$35,000; O. Leonard, County Engr.; Geo. S. Mathews, County Judge.

Tex., Bastrop—Bastrop County plans 1 1/2 mi. gravel surfaced road on Elgin-Taylor road, between Elgin and Travis County line; estimated cost \$10,000; J. B. Price, County Judge.

Tex., Beaumont—City receives bids this week for street paving; R. M. Fulweiler, City Engr.; Geo. J. Roark, City Mgr.

Tex., Canton—Van Zandt County will receive bids until March 14 for 7.14 mi. 9-ft. x 18-ft. wide concrete road on State Highway No. 15, from Grand Saline to point 900 ft. east of Mill Creek; 39,636.6 sq. yd. reinforced concrete pavement; 57,863.5 cu. yd. excavation; J. H. Bray, County Engr., Grand Saline; C. L. Hubbard, County Judge. (Lately noted.)

Tex., Centerville—Leon County plans road building in Oakwood Dist.; will vote soon on \$200,000 bonds; W. D. Lacey, County Judge.

Tex., Colorado—Details under Bridges, Culverts, Viaducts.

Tex., Dallas—City let contracts to pave 57 streets as follows: Fuller Construction Co., at \$163,320.58 for 41,152 yds. Willite asphalt concrete paving on 7 streets; Uvalde Paving Co., at \$135,829.40, for 35,720 yds. Uvalde rock asphalt on seven streets; Smith Bros. Co., at \$656,808.40 for 178,285 yds. Willite asphalt concrete on 31 streets; Central Bitulithic Co., at \$279,339.90 for 71,990 yds. Warrenite bitulithic on 12 streets; all contractors of Dallas; Louis Haylock, Mayor.

Tex., Dallas—City contemplates paving Oak Cliff Blvd., from 10th to Winter St. Address The Mayor.

Tex., Ennis—City contemplates paving S. Main and S. Dallas Sts.; R. A. McCulloch, Mayor.

Tex., Floresville—Wilson County plans 15 mi. macadam base with asphalt top road on San Antonio-Corpus Christi road; approximate cost \$300,000; F. E. Hess, Engr., Box 272, Floresville.

Tex., Fort Worth—City plans paving Vickery Blvd., from Bessie St. to Sycamore Creek. Address The Mayor; City and Tarrant County will pave boulevard from Creek to Conner Ave.

Tex., Georgetown—Williamson County will receive bids soon to grade and construct drainage structures on 5.98 mi. State Highway No. 2-B, between Hutto and Round Rock; estimated cost \$91,500; R. A. Nichols, County Engr.; F. D. Love, County Judge.

Tex., Georgetown—Williamson County, Road Dist. No. 9, plans road building; will vote March 12 on \$20,000 bonds; R. A. Nichols, County Engr.; F. D. Love, County Judge.

Tex., Hillsboro—Hill County, Malone Dist., plans building 5 roads out of Malone, connecting with 2 pikes from Hillsboro and Hubbard; voted \$150,000 bonds; Penelope Dist. defeated \$200,000 bonds. Address County Commrs. (Lately noted.)

Tex., Houston—City received low bid from Chas. K. Horton, Houston, at \$49,179, to gravel White Oak Bayou, from Houston Ave. to Taylor St.

Tex., Houston—City let contract to Gulf Bitulithic Co., Houston, at \$67,720 to pave with asphalt, Walker Ave. from Austin St. to Sam Houston Park.

Tex., Huntsville—City plans about 2 mi. paving; will receive bids soon. Address County Commrs.

Tex., Huntsville—Walker County plans hard surfacing five State highways; will vote Mar. 29 on \$1,500,000 bonds. Address County Commrs.

Tex., Italy—City plans street improvements; voted bonds. Address The Mayor.

Tex., Lamesa—City let contract to Pan handle Construction Co., Lubbock, for street paving; 5-in. concrete base, with 1½-in. Amiesite.

Tex., Linden—Cass County, Road Dist. No. 18 plans road building; will vote March 8 on \$52,000 bonds; F. E. Hess, County Engr., Medical Arts Bldg., Dallas; S. L. Henderson, County Judge.

Tex., Lufkin—Details under Land Developments.

Tex., Menard—Menard County plans grading and constructing drainage structures on 15 mi. State Highway No. 23; approximate cost \$74,000; Henry H. Batjer, County Engr. J. M. Mathews, County Judge. (Lately noted.)

Tex., Port Arthur—Details under Land Developments.

Tex., Quanah—City let contract to J. M. Jordan Co., Plainview, Tex., for 40,000 yds. street paving.

Tex., Seymour—Baylor County plans road building and improvement; will vote March 15 on \$500,000 bonds; Ernest Tibbette, County Judge. (Lately noted.)

Tex., Sinton—San Patricio County plans hard surfaced road on State Highway No. 12, from Aransas Pass to Gregory; voted \$25,000 bonds. Address County Commrs.

Tex., Vernon—Wilbarger County, East Vernon and Oklaunion Dists., plan improving 2 road sections as follows: Complete pavement on Colorado-Gulf Highway, between Vernon and Wichita Falls; pave 4 mi. Lee Highway, northeast of Oklaunion; will vote March 22 on \$150,000 bonds. Address County Commrs.

Virginia—State Highway Comm., Richmond will receive bids until March 12 to build 10 roads as follows: Project 118B, Route 33—Roanoke and Franklin counties, 4 mi. 18-ft. bituminous macadam road south of Roanoke-Boone Mill road; 11E, Route 33—Franklin County, 5.1 mi. 18-ft. 8-in. bituminous macadam road north of Rocky Mount road; S-134A, Route 14—Campbell County, 5.4 mi. 22-ft. top soil Lawyers Road, M. P.; S-188B, Route 323—Lunenburg County, 5.2 mi. 22-ft. top soil road west Lunenburg Court House; S-293, Route 23—Giles County, 9 mi. grading and draining on Newport-Hoges Store road; S-317, Route 12—Mecklenburg County, 5.1 mi. bituminous macadam Chase City—Boydton road; S-328, Route 394—Elizabeth County, 1.8 mi. concrete from Phoebus to Buckroe Beach; S-343, Route 11—Tazewell County, 5 mi. concrete Tazewell to North Tazewell road; S-345, Route 101—Princess Anne County, 3.3 mi. 18-ft. concrete Virginia Beach to Story; S-349, Route 29—Gloucester County, 3.2 mi. 16-ft. concrete from intersection of Route 291 to 2.85 mi. north of Gloucester Court House; plans, etc. from following Dist. Engrs.: F-118B, F-118E, S-196C and S-293 at Salem; S-134A, Lynchburg; S-188B and S-317 Richmond; S-343, Bristol; S-328 and S-345, Suffolk; S-349, Fredericksburg; H. G. Shirley, Chmn. of Comm.

Va., Luray—Details under Land Developments.

Va., Norfolk—Details under Land Developments.

W. Va., Buckhannon—State Road Comm., Charleston, and Upshur County Court, Buckhannon, will receive bids until March 10 to grade, drain and pave with bituminous macadam, 5.89 mi. Buckhannon and Cleveland road, Meade Dist., between Banks District line and Buckhannon District line; Upshur County, Project 3277-B; plans, etc. from Div. Engr., of State Road Comm., Morgantown, State Road Comm., E. B. Carskadon, Sec., Charleston, or County Road Engr.

W. Va., Clarksburg—Details under Land Developments.

W. Va., Huntington—City will receive bids soon to pave 5th St. from 12th to 13th; 19th from Enslow to McVey; Elm from 13th to 14th; 14th from Elm to 17th; 5th Street road from 5th St. bridge to Neal property; also plans paving Baltimore St. from 5½ Alley to 7th Ave.; Alley between Collis and 1st Aves., from 25th to 26th Sts.; 11½ Alley between 10th and 11th Sts.; Vernon St. from Piedmont road to north side of C. & O. right of way; Camden road from Adams Ave. to Piedmont road, and Piedmont road from Camden road to C. & O. crossing. widen 8 ft. on each side; A. B. Hunt, City Clk.; A. B. Maupin, City Engr.

W. Va., Huntington—City let contracts for street paving as follows: To George Hinkle, at \$70,455 to pave with brick, Cross roads, from Norway Ave. to High, and Cemetery gate; Oney Ave. from Davis to Sycamore; Sycamore from Springdale to Davis; Highland St. from St. Louis to Oney Ave.; Underwood from 18th to 19th; 18th from 8th to 9th; for 7-in. concrete, 7th Ave. from 30th to Chesapeake, and Chesapeake from 7th to 6th; to Geo. L. Pence, at \$5365.80 to pave 19th St. from Washington to Adams; to L. J. Gillespie, at \$23,502.50 to pave 6th from S. High to Buffington; to Jack Ulom, at \$12,041, from 16th St. road, from Norway Ave. to corporate limits; to Jack Doyle, at \$6658.30, 23rd from Railroad Ave. to Jefferson; all brick; at \$6653.30 for Alley between 3rd and Collis Aves. and 26th and 27th Sts.; at \$6437.10; alley between 1st and Collis and 26th and 27th; all for 7-in. concrete; to Duncan & Griffith, at \$15,171.50, for 17th St. from 8th to 11th; to Hatfield Construction Co., at \$7262.50, for 27th St. between 9th Ave. and Hite's Store; to J. A. Griffith, at \$11,937 for 8th from Washington to Adams, and Monroe Ave. from 18th to 19th; all brick; to Tom Walker, to pave with 7-in. concrete, 11½ Alley between 16th and Elm Sts.; A. B. Maupin, City Engr.

Sewer Construction

Fla., Bartow—City is having preliminary work done toward installing new sewer system, for which \$90,000 bonds were previously noted voted. C. B. Turner, City Mgr.

Fla., Live Oak—Details under Road and Street Construction.

Fla., Miami Beach Sta., Miami—Details under Road and Street Construction.

Fla., Tampa—Details under Road and Street Construction.

Md., Baltimore—Details under Land Developments.

Mo., St. Joseph—Judson Engineering Co., of St. Joseph, was lowest bidder at \$15,852.90 for 10 blocks of Thirteenth street main sewer.

N. C., Bessemer City—Town, M. L. Rhyne, Sec., contemplates issuing \$15,000 bonds for constructing sewer system and \$15,000 bonds for enlarging water works.

N. C., Robersonville—Details under Water Works.

N. C., Wilmington—Details under Land Developments.

Okla., Apperson — Details under Water Works.

Okla., Chickasha—City let contract at \$43,500 to Gibson & Mitchell Construction Co., of Pauls Valley, Okla., to construct sewerage disposal plant and outfall sewer.

Okla., Tulsa—Details under Land Developments.

Tenn., Tiptonville—Details under Road and Street Construction.

Tex., Conroe—City Council plans installing sewerage system; will vote on \$40,000 bonds; F. S. VonZuben, Const. Engrs., Fort Worth, Tex.

Tex., Dallas—City, J. M. Preston and others reported interested in construction of sanitary sewer system in suburban section west of Trinity River; sewer line will serve approximately 12 residential additions, including Trinity Heights, No. 2, and 3, Edgemont, Kelly's Addition, Betterton's Addition, etc.

Tex., Denison—City will extend sewer system and expend \$50,000 on water works extensions. Address The Mayor.

Tex., Floydada—City will vote March 18 on \$50,000 bonds for construction of sewer system. Address The Mayor.

Tex., Lufkin—Details under Land Developments.

Va., Norfolk—Details under Land Developments.

W. Va., Clarksburg—Details under Land Development.

W. Va., Hamlin—City will vote on \$12,000 bonds for sanitary sewers. Address The Mayor.

W. Va., Huntington—City will construct two blocks of 12-in. sewer. Mat Miser, Supt. of Streets.

W. Va., Point Pleasant—City will soon vote on bonds for installing complete sewerage system. Address The Mayor.

Shipbuilding Plants

Mo., St. Louis—Western Barge Line, Inc., Thos. P. Craig, Pres., 3932 Evans Ave., will build one tow boat and 5 barges; invite prices on materials used in construction of hull boats and barges, boilers, main engine, auxiliary equipment and steamboat supplies. (See Machinery Wanted — Hull Boats and Barge Construction.)

Telephone Systems

Mo., Brookfield—Southwestern Bell Telephone Co., main office Atlanta, Ga., will improve system in the Brookfield section, including new aerial and cable facilities.

W. Va., Charleston—Chesapeake & Potomac Telephone Co. of West Virginia, W. F. Williamson, V.-P., will extend telephone service in the Williamson district, including offices at Burch and Kermit, estimated cost \$40,000; additional plant facilities in Williamson proper to cost about \$35,000.

Textile Mills

N. C., Charlotte—Catawba Knitting Co., capital \$50,000, incorporated by C. L. O'Key, R. L. Bryant of Charlotte, W. A. Ball of Rock Hill and others.

N. C., Gastonia—Michael & Bivens, Gastonia, has contract for all electrical work in Art Cloth Mills building, including wiring, motors, etc., cost \$28,000; J. E. Sirsine & Co., Engrs., Greenville, S. C.; company lately increased capital from \$67,000 to \$100,000. (Other contracts previously noted awarded.)

N. C., Greensboro—White Oak Mills will individualize part of spinning equipment now driven by group motors, etc.; have purchased Allis-Chalmers Manufacturing Co.'s motors; J. E. Sirrine & Co., Engrs., Greenville, S. C.

N. C., Greensboro—Proximity Manufacturing Co. will rebuild power plant, adding new boiler equipment, stokers and coal handling equipment; have purchased from General Electric Co., Schenectady, N. Y., a 1000 k.w. extraction type turbo generator and condenser from C. H. Wheeler Co.; will install piping for steam usage in dye plant; J. E. Sirrine & Co., Engrs., Greenville.

N. C., Rhodhiss—Rhodhiss Mills let contract to Michael & Bivens, Gastonia, N. C., to wire and equip the Rhodhiss Mills Nos. 1 and 2; cost \$15,000.

S. C., Fingerville—Franklin Process Spinning Mill, Inc., Hiram W. Kirby, Gen. Mgr. reported to have begun work on general improvements to machinery, building and employes homes, etc.; improvements will include removing of spinning frames and replacement with new equipment built by Saco-Lowell Shops, Charlotte, N. C.; card room machinery will be reconditioned and new drawings installed; 36 Universal winding machines, new flooring laid; new system of lighting, etc. (Previously noted.)

S. C., Pageland—G. R. Spencer of Gastonia, N. C., reported interested in erection of textile mill.

S. C., Tucasau—Tucasau Mills, J. F. Cleveland, Pres., reported to have let contract to Walker Electric & Plumbing Co., of Atlanta, Ga., for electric wiring and installation of motor drives in new addition; cost about \$13,000.

Tenn., Cleveland—Cleveland Woolen Mills has begun construction of addition to tailoring department of company; addition to main mill building will be 4 stories, 65x150 ft., of modern mill type construction, equipped with automatic sprinklers; first floor will give greater capacity to finishing plant; second floor for cafeteria, fourth floor for modern equipped coat tailoring shop; will construct brick and steel construction dye house, 75x150 ft.; 1 story, equipped for raw stock dye house; steam plant will be built and work is now under way; power equipment will consist of two 375 h.p. Westinghouse boilers, a 700 h.p. Westinghouse turbine engine and generators for making all electrical and lighting power required by company; brick stack will be 150 ft. above base and 14 ft. in diam. at base and 6 ft. at top; cost of machinery and buildings about \$150,000; W. H. Sears, Archt., Chattanooga, Tenn. (Lately noted.)

Tenn., Covington—O-Cedar Mills in South Covington, will install machinery for manufacture of special line of yarns and napped cloth; will increase capacity from 32,000 to 50,000 lbs. per week; cost about \$85,000.

Water Works

D. C., Washington—U. S. Engineer Office, 250 Old Land Office Bldg., will receive bids until March 21 to construct First and Second high reservoirs for Dist. of Columbia Water Supply Project.

Fla., Live Oak—Details under Road and Street Construction.

Fla., Miami Beach Sta., Miami—Details under Road and Street Construction.

Fla., Miami—Details under Land Developments.

Ky., Ownesboro—City, James H. Hickman, Mayor, is having surveys made by Phillip Burgess, Conslt. Engr. of Columbus, O., for improvements to water main extension; \$100,000 available. (Lately noted.)

La., Baton Rouge—Baton Rouge Water Works Co., will expend \$100,000 in extension to water works to consist of wells and 12 in., 10 in. and 6 in. water pipe lines. (Lately noted.)

La., Gibsland—City let contract at \$39,466 to McIntosh Construction of Monroe, La., for construction of water works. (Lately noted.)

Md., Baltimore—Details under Land Developments.

Miss., Magee—Mississippi Tuberculosis Sanatorium has acquired 7½ acres of land containing a spring and will lay pipe from spring to the Sanatorium; capacity 2000 gals. per minute; Board of Aldermen of City are interested in installing tank and water works system supplied from same spring.

N. C., Bessemer City—Details under Sewer Construction.

N. C., Robersonville—Town is having plans prepared for water and sewer main system; will receive bids in 60 days; Carolina Engineering Co., Engrs., Wilmington, N. C.

N. C., Wilmington—Details under Land Developments.

Okla., Apperson—City recalled election of Feb. 15 to vote on \$130,000 bonds for water and sewer. Address The Mayor.

Okla., Enid—City will install 150 h.p. boiler at water works; will soon invite bids. Address City Commrs.

Tenn., Jackson—Details under Road and Street Construction.

Tex., Big Springs—Roy Irick of Plainview, Tex. has contract for installing sewer system including disposal plant; cost \$42,000. (Lately noted.)

Tex., Brady—City plans voting \$100,000 water extension bonds. Address The Mayor.

Tex., Denison—Details under Sewer Construction.

Tex., Lufkin—Details under Land Developments.

Tex., Mart—City will expend \$150,000 for water works extension; will erect 20x30 ft. pump station; 1,000,000 g.p.d.; install motor or oil engine driven centrifugal pump; \$60,000 reservoir; cost of pipe line \$60,000; cost of filtration plant, \$20,000; Koch & Fowler, Engrs. and Archts., Dallas, Tex. (Lately noted.)

Va., Luray—Details under Land Developments.

Va., Norfolk—Details under Motor Cars, Garages, Tires, etc.

Va., Norfolk—Details under Land Developments.

Va., Staunton—City, W. F. Day, Mgr. voted \$700,000 bonds for water supply system; will begin construction in May; Fuller & McClintock, Engrs., 170 Broadway, New York. (Lately noted.)

W. Va., Clarksburg—Details under Land Development.

Woodworking Plants

Ga., Raymond—Handles—Raymond Handle Co., capital \$25,000, incorporated by David H. Kirkland, Raymond; L. J. Clements, Greenville, S. C. and others.

Ga., Raymond—Raymond Veneer Co., capital \$25,000, incorporated by David H. Kirkland, A. R. Coleord and others.

Ky., Henderson—Henderson Excelsior Co., capital \$12,000, incorporated with G. O. Letcher, Pres.; Hugh N. Helm, Sec.

Ky., Hickman—Mengel Co. will rebuild veneer plant. (Lately noted burned.)

Md., Baltimore—Wm. Knabe & Co., let contract to Frairie Bros. & Haigley, 19 W.

Franklin St., to erect 247x111 ft., one story addition to plant cor. Eutaw and West Sts.; brick construction; estimated cost \$54,000; Parker, Thomas & Rice, Archt.

Mo., Springfield—Coombs Fay Sash & Door Co., capital \$50,000, incorporated by R. L. Coombs, Fort Worth, Tex., F. C. Fay, Springfield, Mo. and others.

N. C., Badin—Badin Furniture Co., capital \$50,000, incorporated by J. E. Ewing, A. C. Heath and others.

N. C., High Point—The High Point Box & Lumber Co., capital \$200,000, organized with J. E. Mills, Pres.; B. M. Armfield, Sec.-Treas., Asheboro, N. C.

Tex., El Paso—Economy Rim Co., capital \$50,000, incorporated by D. E. Fowler, Paul Ebert and others; manufacture automobile rims.

Tex., Houston—Republic Box Co., R. O. Harris, Gen. Mgr., 4100 Leland Ave. will build additional shops, warehouse and storage houses.

Va., Hopewell—Wood Products Corporation, reorganized with E. W. Smith, Pres., John C. Shambow, V. P.; James O. Heflin, Sec.

Va., Richmond—Virginia Truck Body Co., Joe Baker, Pres., 1725 Summit Ave. let contract to Davis Bros., Inc., to erect 70x142-ft. brick building, concrete floors, slag roof, estimated cost \$20,000.

FIRE DAMAGE

Ala., Andalusia—Standard Telephone Exchange in the Knox Building; loss not estimated.

Ala., Birmingham—United States Cast Iron Pipe & Foundry Co.'s plant at North Birmingham; estimated loss \$80,000.

Ala., Flat Top—Convict Prison at Flat Top Mines in Jefferson County; Roy L. Nolen Asso. Member, State Convict Board, Montgomery.

Ala., Marion—Residences of Wm. L. Hogue and Dr. C. Byron Robinson; loss \$10,000.

Ala., Opelika—Cafe owned by Mrs. H. D. Morris and C. L. Edwards meat market.

Ala., Phenix City—R. Brooks' vulcanizing plant, W. D. White's residence and other buildings damaged; loss \$15,000.

Ala., Uniontown—Mrs. L. A. Morgan's residence; loss \$10,000.

Fla., Panama City—Building occupied by Southern Bell Telephone Co., and L. E. Webb Mercantile Co.; loss not estimated.

Ga., Arlington—Arlington Stave Mfg. plant; loss not estimated.

Ga., Irwinton—Courthouse. Address Wilkinson County Commrs.

Ga., Lyerly—Lumber yard of the Bohannon & Hammond; loss \$15,000.

Ga., Mt. Airy—Montereyto Hotel.

Ky., Frankfort—Frankfort Glove Co.'s factory on Ann St.; loss \$40,000.

Ky., Hardinsburg—Office of the Record Press Publishing Co. and adjoining buildings; estimated loss \$12,000.

Ky., Jonancy—Kentucky Block Fuel Co.'s store, office building and moving picture house; loss \$50,000; Jas. Elwood Jones, Pres. of company.

Ga., Macon—Macon Veneer Co.'s plant on Division St.; estimated loss \$50,000.

Ky., Paintsville—Louisville Gas & Electric Co.'s gas pumping station; loss \$10,000.

La., Gillis—S. A. Kingrey's residence, machinery barn and stock barn; loss \$12,000.

La., Lafayette—American Cafe owned by Nick Johnson; Lafayette Drug Store owned by T. B. Hopkins; offices of Dr. J. O. Duhon and J. S. Givens Realty Co.; Central Barber Shop owned by Ulysses Broussard; loss \$50,000.

La., New Orleans—Lucille Shop and adjoining stores; loss \$20,000.

Md., Baltimore—Fourth floor paint shop of Leonhardt Wagon Mfg. Co., 416 E. Saratoga St.; loss \$20,000.

Miss., Natchez—Natchez Broom Co.'s factory; loss \$20,000.

N. C., Asheville—Southern Express Co.'s building; loss \$8,000.

N. C., Pinehurst—R. C. Fownes, of Pittsburgh, Pa., winter residence.

N. C., Winston-Salem—Twin City Sentinel's store rooms, etc., loss not estimated.

N. C., Wilson—Imperial Hotel.

N. C., Winston-Salem—Mrs. Chas. Creech's store; Mrs. J. H. Pope's house; Sam Waggoner's dwelling; loss \$10,000.

S. C., Columbia—Rivoli Theater; loss \$10,000.

S. C., Graniteville—Home of Henry C. Parker and store of Jas. E. Parker.

S. C., Lowndesville—Lowndesville Oil Mill and several dwellings; loss estimated at \$75,000.

S. C., Camden—Plant of Camden Veneer Co.; loss not estimated.

S. C. Rock Hill—Woodworking department of Anderson Motor Co.; estimated loss between \$25,000 and \$30,000.

Tenn., Memphis—Shops of the Union Railway; loss \$30,900.

Tenn., Pall Mall—Alvin York's barn and granary; loss \$10,000.

Tex., El Paso—El Paso Loan Co.'s building, Abraham Rosenthal, Prop.; loss \$50,000.

Tex., Everman—Masonic Hall; First State Bank, J. H. Irving's store; E. G. Thomas' store, Dean Garage; loss \$15,000.

Tex., Marlin—Col. A. E. Watson's residence; loss \$25,000.

Tex., Nocona—Nocona Hotel owned by Mrs. Rosa Pearson; loss \$14,000.

Tex., Snyder—Tom Davis' residence on N. Clairmont St.; loss \$10,000.

Tex., Sudan—High School building; loss \$50,000; address O. T. Ryan, Supt.

Va., Charlottesville—M. F. Wiant's dwelling on Preston Ave.

Va., Fort Humphreys—Two building, Q-40 and Q-142, at Quartermaster Detachment Barracks; Col. Jas. A. Woodruff, Commandant.

W. Va., Huntington—West Moreland Junior High School; loss \$10,000; address Bd. of Education.

W. Va., Huntington—Vanity Fair Hall; loss \$50,000.

W. Va., Shepherdstown—Henry C. Martin's building.

W. Va., Wheeling—Geo. J. Mathison's store and apartment building; loss \$25,000.

Churches

Ala., Albertville—Baptist Church, Rev. W. H. Black, Pastor, will erect \$25,000 building; ordinary construction, 3 stories, 60x90 ft., pine floors, asphalt shingle roof; Jas. E. Greene, 809 American Trust Bldg., Birmingham, Ala., is preparing plans. (Lately noted.)

Ala., Ensley—First Baptist Church will soon receive bids to erect \$200,000 building at 18th St. and Ave. G.; fireproof; 120 x 100 ft.; P. S. McWhinney, Archt., Woodward Bldg., Birmingham.

Ala., Gaylesville—Methodist Episcopal Church, Rev. J. W. McBrayer, Pastor, plans to erect \$10,000 building; sandstone foundation; fieldstone above.

Fla., Palm Beach—Episcopal Church of Bethesda by the Sea, Cannon J. Townsend Russell, Pastor, plans to erect building; Spanish style patio.

Ga., Atlanta—Ponce de Leon Baptist Church has plans by Haralson Blackley, Atlanta, and will soon let contract to remodel and extend auditorium; also increase seating capacity of balconies, erect Sunday school addition; ordinary construction, steel frame, arched ceilings; S. S. Storrer, Conslt. Engr., Atlanta.

Ky., Lebanon—United Presbyterian Church, Rev. W. A. Hopkins, Pastor, will receive bids about March 31 through Nevin, Wishmeyer & Morgan, Archts., Starks Bldg., Louisville, for erection of church and Sunday school; cost \$100,000; 45x75 ft. with 35x50 ft. wing; 3 stories; stone, hollow tile, pine and maple floors, probably slate roof, native stone foundations, interior tile, plaster board, ventilators. (Previously noted.)

La., Lake Charles—Welsh Methodist Church will erect \$10,000 community house; 32x70 ft., 2 stories, kitchen, study, community hall, etc., on first floor, 4 classrooms above; R. S. McCook, Archt., Lake Charles; will call for bids in about 2 weeks.

Md., Baltimore—St. Thomas' P. E. Church Carswell and Taylor Sts., Rev. Charles E. Perkins, Rector, will soon award contract to erect \$70,000 building at Alameda Blvd. and 31st St.; J. E. Laferty, 13 W. Mulberry St. and Robert L. Harris, Union Trust Bldg., Archts. (Lately noted.)

Md., Baltimore—St. Wenceslaus' Catholic Church, Rev. Jos. W. Shott, Pastor, Madison and Duncan Sts., will erect recreation building; cost \$125,000; include gymnasium, club-room, hall for entertainments, etc.

Miss., Biloxi—Baptist Church, Rev. P. G. Posey, Pastor, plans to break ground about March 1 on W. Howard Ave. for erection of \$50,000 brick building.

Miss., Charleston—First Presbyterian Church, Rev. Mr. Pasma, Pastor, will erect 2-story building to replace burned structure; ordinary construction, about 30x60 ft., pine floors, asphalt shingle roof; Jas. F. Greene, 809 American Trust Bldg., Birmingham, Ala., is preparing plans. (Lately noted.)

Miss., Marks—Baptist Church, Rev. C. T. Johnston, Pastor, will erect 3-story building; ordinary construction, 60x96 ft., pine floors, Spanish tile roof; Jas. E. Greene, 809 American Trust Bldg., Birmingham, Ala., is preparing plans. (Lately noted.)

Mo., Kansas City—South Prospect M. E. Church, South, plans to erect \$30,000 to \$40,000 two-unit building, 51st and Montgall Sts. Address The Pastor.

Mo., Smithville—Methodist Church, Rev. W. H. Ellington, Pastor, is receiving bids for erection of building.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Ala., Demopolis—Ancient Free & Accepted Masons plans to erect 2-story building; cost \$20,000 to \$30,000.

Fla., Clearwater—Knights of Pythias plan to erect 3-story building for stores, apartments, offices and lodge rooms.

Fla., Fort Myers—Benevolent Protective Order of Elks will erect \$45,000 clubhouse at First St. and Royal Palm Ave.; 2 stories and basement, 46x100 ft.

Tenn., Dandridge—Junior Order of United American Mechanics, J. E. Bettis, Chmn. Comm., is contemplating erection of building.

Va., Danville—Board of Directors, Y. M. C. A., is considering enlarging building.

Va., Danville—Young Men's Christian Association plans to enlarge building.

Bank and Office

Ark., Pine Bluff—Standard Lumber Co. will erect 2-story office building; 44x88 ft.

Fla., Boynton—Bank of Boynton, Ocean Ave., west of Dixie Highway, will erect \$40,000 fireproof building.

Fla., Clearwater—American Railway Express Co. will erect office building; 25x110 ft.

Fla., West Palm Beach—O. P. Gruner will erect building on Clematis Ave. for use of Palm Beach Gas Co., Ralph B. Wagner, Pres., 1409 Florida Ave., to contain offices, display room, meter testing room and pipe and fitting room.

Ga., Albany—Mrs. B. B. Williams has plans by J. T. Murphy, Albany, for 5-story office building at Washington and Pine Sts.; cost \$100,000. (Lately noted.)

Ga., Moultrie—Moultrie Banking Co., W. C. Vereen, Pres., will erect building; tentative plans call for 145x36-ft., 3-story building.

La., New Orleans—Industrial Realty Co. will expend \$15,000 to alter and repair office building, 801-03 Baronne St.

Okla., Wewoka—First Guaranty Bank will erect \$35,000 building.

S. C., Greenville—Chamber of Commerce reported to erect 10-story office building.

Tex., Garland—State National Bank has plans by Flint & Broad, Archts., Dallas, for building to embrace reconstruction of present building; two stories; 80x30 ft.; brick and natural stone; cost \$30,000.

Tex., Hamlin—First National Bank postponed erection of 2-story building until about June; David S. Castle Co., Archts.-Engrs., Abilene, Tex. (Lately noted.)

Tex., Houston—Mike and Will Hogg purchased site at Fannin St. and Rusk Ave. and are reported to erect office building.

Tex., Houston—Varner Trust Co. purchased site opposite Cotton Hotel and is reported to be considering erection of office building.

Tex., San Antonio—Witherspoon Oil Co. purchased site at N. Alamo and 6th Sts. and plans to erect \$70,000 office building; 3 stories; brick and concrete.

Va., Martinsville—First National Bank has plans by E. R. James, Danville, for erection of \$50,000 building; Italian renaissance type; Caen stone walls, ornamental plaster ceiling, reinforced concrete lined vault, drill proof doors.

Va., South Hill—Bank of South Hill will receive bids through Fred A. Bishop, Archt., Petersburg, Va., for erection of \$20,000 building.

Mo., St. Joseph—Marvin Memorial Methodist Church, Rev. J. E. Baker, Pastor, Ninth and Madison Sts., will erect church and parsonage.

N. C., Durham—Trinity Methodist Church, R. L. Baldwin, Chmn. Bldg. Comm., will receive bids until March 4 to erect \$330,000 to \$350,000 building, Cleveland and Liberty Sts.; Cram & Ferguson, Archts., 248 Boylston St., Boston, Mass. (Lately noted.)

N. C., Gastonia — St. Mark's Episcopal Church, West Long Ave., purchased property at W. Second Ave. and S. Chester St. and will erect church, parish house and rectory. Address The Rector.

N. C., Gastonia—White, Streeter & Chamberlin, Gastonia, prepared plans for \$50,000 Jewish synagogue at South St. and Third Ave.; renaissance type; 40x80 ft., brick, limestone trim; auditorium to seat 500; banquet hall and class rooms in basement; residence in rear for Rabbi. (Lately noted.)

N. C., Lexington—State Street Methodist Protestant Church, Rev. C. L. Whitaker, supply pastor, plans to erect 2-story building as combination church and parsonage.

Okla., Tulsa—All Souls' Liberal Church has plans by W. D. Vansielen, for \$20,000 parish house at 15th and Quaker Sts.; 2 stories.

Okla., Lawton—First Baptist Church plans to erect building; H. G. Wayne, is arranging financial details. Address The Pastor.

Okla., Muskogee—First Christian Church, Rev. John L. Brandt, Pastor, is considering erecting new building and remodeling present structure for Sunday-school; new auditorium to seat 1500; Sunday school to accommodate 1500; cost about \$150,000.

Okla., Turley — Community Methodist Church will erect \$12,000 building. Address The Pastor.

S. C., Greenwood—Presbyterian Church will receive bids until March 4 through Jas. C. Hemphill, Archt., Greenwood, to erect Sunday school annex; separate bids on general, plumbing and heating contracts; plans include 2 stories and basement, brick and hollow tile, exterior of face brick trimmed with stone, rubble stone foundation, slate roof.

S. C., Greer—Baptist Church, J. A. Anderson, Pastor, will erect \$10,000 building at Fairview between Greer and Chick Springs.

Tenn., Columbia—First Christian Church, Rev. L. S. White, Pastor, has tentative plans by Tisdale & Stone, Nashville, with W. W. Pinson, Jr., Asso., for \$30,000 structure on W. 7th St.; auditorium to seat 1000. (Previously noted.)

Tenn., Dyersburg—First Baptist Church selected R. H. Hunt Co., Chattanooga, Tenn., to prepare plans for erection of building at Masonic and Church Sts. (Lately noted.)

Tex., Bartlett—Baptist Church will erect \$50,000 structure. Address The Pastor.

Tex., Dallas — First Episcopal Methodist Church, South, M. C. Cameron, Chmn. Bldg. Comm., has plans by R. H. Hunt Co., Dallas, for erection of \$700,000 building at Ross Ave. and Harwood St.; 240x169 ft.; portion of foundation completed and contract for additional excavation and foundation of 4-story Sunday school section will be awarded at once; main auditorium, 87x90 ft. and will seat 2500, Sunday school assembly hall to seat 3500; gymnasium, 40x64 ft.; roof garden, 60x102 ft., floored with tile and provided with stage; linoleum or mastic floors in Sunday school building; woodwork and seating of main auditorium of walnut; exterior of building either of stone or vitreous

gray brick with stone trimmings and roof of dark green tile. (Lately noted.)

Tex., Dallas—West Dallas Baptist Church, Rev. D. W. Boone, Pastor, will erect \$10,000 building; brick.

Tex., Dallas—Calvary Baptist Church, Rev. W. O. Barnett, Pastor, will erect \$100,000 building at 10th and Brighton Sts.; 2 units; first to be Sunday school of 3 or 4 stories and basement; seating capacity 900.

Tex., Dallas—Gospel Tabernacle Congregation, Rev. N. F. Eby, Pastor, Fourth and Grand Aves., will erect \$30,000 building at Peak and Garland Ave., East Dallas; stone construction.

Tex., Canyon—First Presbyterian Church does not plan to erect building at this time, as lately reported.

Tex., Fort Worth—Trinity Episcopal Church, Rev. Lee W. Heaton, Rector, plans to erect \$40,000 building at Lipscomb and Myrtle Sts.; Gothic type; brick and stone; accommodate 500.

Tex., San Antonio—South Side Christian Church, S. Presa Street and Dunning Ave., opened bids to erect addition to building; Jno. Westerhoff, San Antonio, is lowest bidder at \$18,325; Graham & Collins, wiring and West Gutzelt, plumbing; plans call for reinforced concrete frame, stone trim.

Tex., San Marcos—First Baptist Church purchased site at Hutchinson and North Sts. for erection of \$100,000 building. Address The Pastor.

Va., Danville—Calvary Methodist Church, H. E. Ferguson, Chmn. Bldg. Comm., contemplates enlargement of Sunday school building.

Tex., Waco — Second Presbyterian Church, Ben E. Clement, Chairman of Finance Committee, plans to erect \$40,000 building.

Va., Lynchburg—Rivermont Avenue Methodist Church will erect \$100,000 building. Address The Pastor.

Va., Petersburg—Walnut Hill Mission of Grace Church, Philip R. Roper, Chmn., Finance Comm., plans to erect Parish Home to contain Sunday school, auditorium to seat 250, etc.; cost \$50,000.

W. Va., Richwood—Protestant Episcopal Church plans to erect building. Address The Rector.

W. Va., Wheeling—Lutheran Church, Rev. C. E. Butler, Pastor, purchased 120x200 ft. site on Twelfth Ave. between Seventh and Eighth Sts. and will erect building; auditorium to seat 500; Wm. Francis Diehl, Archt., Huntington.

City and County

D. C., Washington—Amphitheater—District Commissioners, Room 509 District Bldg., will erect amphitheater in Anacostia Park; seating capacity 10,000.

D. C., Washington — Library — District Commissioners, Room 427 District Bldg., will receive bids until March 4 for construction of Mount Pleasant Branch Library Building; cost \$200,000; 2 stories and basement, stone, tile roof; Edw. L. Tilton, Archt., 141 E. 45th St., New York. (Lately noted.)

Fla., Live Oak—Bath House, etc.—City will vote March 25 on \$168,000 bonds to erect bath house, extend water mains, paving streets, etc. Address The Mayor.

Fla., Miami Beach — Fire Station — City voted \$40,000 bonds for fire alarm equipment and erection and equipment of fire station near 23rd St. Address The Mayor. (Lately noted.)

Fla., Orlando—Fire Station—City, E. G.

Duckworth, Mayor, defeated \$20,000 bonds to erect fire station. (Lately noted.)

Fla., Tampa—Auditorium, Market, Fire Station, Hospital—City, Perry G. Wall, Mayor, will vote April 15 on \$2,840,000 bonds, including bonds for auditorium, market, fire stations, hospital, etc. (Lately noted.)

Fla., Tampa — Courthouse — Hillsborough County Commrs. have plans by Fred J. James, Tampa, for erection of courthouse. (Lately noted.)

La., Baton Rouge — Fire Station—City Commission purchased site on Laurel St. for erection of fire station.

Md., Baltimore—Engine House—Board of Awards, Mayor Howard W. Jackson, Pres., will receive bids in duplicate until March 5 at office Fredk. A. Dolfield, City Register, City Hall, for alterations to Engine Co. No. 44, Upland Road, Roland Park; drawings and specifications at office C. H. Osborne, Inspector of Bldgs., City Hall.

Mo., Charleston — Courthouse—Mississippi County will vote Aug. 9 on \$40,000 bonds to erect courthouse. Address County Commissioners. (Lately incorrectly noted at Miss., Charleston.)

Mo., Joplin—Memorial Hall—Memorial Hall Advisory Board, K. W. Story, Chmn. Comm., is having plans prepared by A. S. Michaelis, 324 Miners Bank Bldg., Joplin, for erection of memorial hall; cost \$250,000; 2 stories; 140x185 ft.; brick, stone, steel, reinforced concrete, tile and cement floors, composition roof, concrete foundation, hollow tile, metal doors, ventilators; seating capacity 4100. (Lately noted.)

N. C., Asheville—Municipal Building—City, John H. Cathey, Mayor, will be ready in about 10 days for bids on construction of 2-story building; cost \$200,000, fireproof, 140x230 ft.; market house on first floor, police and fire depts., jail and city offices on second floors. (Previously noted.)

Okla., Miami — Welfare Home — Board of County Commissioners has purchased 8 acres of land near Miami and plans to build welfare home.

Tenn., Jackson—City Hall—City, Lawrence Taylor, Mayor, plans election on \$890,000 bonds including \$125,000 for erection of city hall.

Tenn., Knoxville—Market — Auditorium—City, Roy H. Beeler, City Atty., has completed plans for proposed \$250,000 market—auditorium on North Side; construction about April 1st. (Previously noted.)

Tex., Houston—Library—Wm. Ward Watkins and L. A. Glover, Archts., Houston, and Cram & Ferguson, Conslt. Archts., 15 Beacon St., Boston, Mass., and Houston, will receive bids until March 10 (lately noted Feb. 15) for erection of first section of \$750,000 library; cost \$200,000, 3 stories and basement, brick stone and reinforced concrete construction, tile roof; Rev. Harris Master-son, Chmn., Library Board Bldg. Comm., Autry House, Rice Inst., Houston.

W. Va., Clarksburg—Cottage—Harrison County Farm Bureau will receive bids until March 8 to build cottage at State Agricultural Camp, Jackson's Mill, Lewis County; eight rooms, bungalow type.

Dwellings

Ala., Tallahassee—Mt. Vernon Woodberry Mills are having plans prepared by J. M. Sirring & Co., Engrs., Greenville, S. C., for erection of mill village of 175 houses, in connection with mill development.

Fla., Miami—E. J. Williams, Syracuse, N. Y., contemplates erection of residence.

Fla., Miami—Jno. G. Robinson purchased

site in Golden Beach and will erect 2-story Spanish villa; cost \$20,000.

Fla., Miami—Col. E. B. Smalley, Springfield, Mo., plans to erect dwelling in Golden Beach.

Fla., Miami—J. S. Dearing, Colorado Springs, Col. is reported to have purchased site in Baywood sub-division and to erect residence.

Fla., St. Petersburg—W. H. Harder will erect \$10,000 dwelling at 15th Ave. and Euclid Blvd.; 2 stories, brick and tile.

Ga., Savannah—W. R. Morrison postponed erection of \$20,000 residence for present. (Lately noted.)

Ky., Ajax (P. O. Bulan, Ky.)—Ajax Coal Co., does not contemplate erection of miners' dwellings in the near future. (Lately noted to erect 12 dwellings).

Ky., Anco—Meams-Haskins Coal Co. will erect 12 miners' houses and store; contract at once.

Ky., Ashland—Salisbury Realty Co., D. A. Leffingwell, Pres., will erect 20 tenant houses; will also move and remodel 11 houses.

Ky., Blue Diamond—Kentucky Block Coal Co. will erect 10 miners' houses; contract at once.

Ky., Glomawr—Reliance Coal Co. will erect 15 miners' dwellings; contract at once.

Ky., Mater—Elkhorn Coal Co. will erect 25 miners' dwellings on Kentucky River out from Kona Station; contract at once.

Ky., Viper—Liggett Mining Co. will erect 10 miners' houses; contract within 2 weeks.

Md., Baltimore—City & Suburban Realty Co., Hartford Rd. and Hamilton Ave., will erect 2 one-story frame bungalows near S. E. cor. Evergreen and Illaper Aves.; total cost \$10,000.

Md., Baltimore—Jos. H. Scheper purchased 93 lots at Westmoreland Farms and will erect number of cottages and bungalows.

Md., Baltimore—Brothers & Kloes, Inc., 1710 Eager St., will erect 5 brick dwellings, 1618-26 Montpelier St.; 2 stories, 18 x 32 x 30 ft.; total cost \$30,000.

Md., Baltimore—John Reid will erect \$12,000 residence, 3701 Clifton Ave.; 2 stories, 34 x 53 x 30 ft.; frame.

Md., Baltimore—Geo. W. Schoenhals & Co., 1112 Munsey Bldg., will erect 29 2-story brick dwellings, 3110-20 3200-16 and 3300-16 Pennsylvania Ave.; about 21 x 36 x 24 ft. each; total cost \$100,000.

Md., Baltimore—Lennox B. Clemens, York Road and 31st St., will erect two 2-story frame dwellings at 425-27 Lake Ave.; cost \$90,000; 24x32x20 ft.

Md., Baltimore—Cleveland R. Bealmear, 501 Title Bldg., will erect five 2-story brick dwellings on Garrison Blvd. near Norfolk Ave.; cost \$29,000; 25x48 ft.

Md., Baltimore—Chas. R. Boblitz, 101 E. Rogers Ave., will erect two 2-story frame dwellings at Rogers Ave. and Ilvay Ave.; 24x33 ft.; cost \$12,000.

Mo., Louisiana—Angus Reed will erect bungalow on N. 4th St.

Mo., St. Louis—Wm. Baumgartner, 4243 Harford St., will erect 2-story brick tenement at 4203 Juinata St.; 68x34 ft., composition roof, hot air heat; plans by owner.

Mo., Springfield—J. C. Black will erect 2 dwellings in 900 block Grand St.

Mo., Springfield—R. B. Lee will erect field stone dwelling, 939 W. Walnut St.

Mo., Springfield—W. O. Rohmann will erect field stone residence in Roanoke addition.

N. C., Greensboro—Mrs. L. J. Brandt will

erect two 7-room residences at 720-22 Percy St.; cost \$12,000.

N. C., Winston-Salem—Modern Homes Co., Masonic Temple, W. E. Burke, President, has incorporated with capital stock of \$50,000 to erect dwellings; has secured eight lots in Westover Park and will erect five, six and seven room residences; plans to erect 25 this year.

S. C., Spartanburg—M. W. Howard will erect four six-room bungalows on Maple St. to cost \$11,400 and one nine-room brick veneer dwelling on Mills Ave. to cost \$10,000.

Tenn., Memphis—W. H. Foster will erect 10 dwellings in Evergreen section; cost \$10,000 each.

Tex., San Antonio—Julius P. Barclay in from 2 to 3 weeks will have plans ready for bids on erection of residence in Monte Vista; Harvey P. Smith, Archt., National Bank of Commerce Bldg., San Antonio.

Md., Towson—Henry R. Buttner, 5 S. Calvert St., Baltimore, will erect Colonial residence.

Mo., St. Louis—Samoto Realty & Bldg. Co., 1205 Fullerton Bldg., has plans by A. Blair Redington, 1205 Fullerton Bldg., for 3-story tenement at 1309 McGausland St.; 40 x 62 ft., tar and gravel roof, vapor heat.

N. C., Andrews—Andrews Building & Loan Assn., Holland & Watkins Bldg., incorporated with \$60,000 capital by G. B. Hoblitzell, Pres. and others, will start construction of 2 dwellings in March.

N. C., Charlotte—Dr. W. A. McPhaul has plans by F. L. Bonfoey, Charlotte, for erection of \$10,000 residence at E. Morehead St. and Bromley Road; 2 stories, 8 rooms, frame.

N. C., Winston-Salem—Modern Homes Co., E. V. Ferrell, Sec.-Treas., Masonic Temple, will erect 25 dwellings; 5, 6 and 7 rooms; frame and stucco; day labor; Luther S. Lashmit, Archt., Winston-Salem.

Tex., Caldwell—J. Earl Porter will receive bids about March 11 at office P. G. Silber & Co., Archts., San Antonio, for remodeling of 2-story, 8-room residence; oak floors, interior tile, metal tile roof. (Lately noted.)

Tex., Houston—Rosemont Home Building Co., A. E. Olson, Pres., Lincoln and West Gray Aves., will erect several frame and brick dwellings.

Tex., Lockhart—J. T. Gillette will receive bids after March 1st for erection of residence; cost \$10,000; 35x40; 1 story and basement; hollow tile and stucco, tile porch, tile roof, Arcola heat, concrete foundation, tile bath; Will N. Noonan, Archt., 240 Moore Bldg., San Antonio.

Tex., Port Arthur—Dr. A. M. McAfee has revised plans by and will receive bids until March 3 through P. G. Silber & Co., Plaza Hotel, Port Arthur, for residence and garage; 47x57 ft., 2 stories, frame, concrete foundations, shingle roof, hardwood floors, hot water heat. (Lately noted.)

Tex., San Antonio—J. B. Pilgrim, 2015 Monterey St., will erect 5-room bungalow on south side of Monterey St. between Spring and Hamilton Sts.

Tex., San Antonio—E. M. Dittmar will erect \$20,000 to \$25,000 dwelling in Blue Bonnet Hills subdivision.

Tex., San Antonio—Sgt. Geo. W. Kellems, 8th Aero Squadron, Kelly Field, will erect 5-room bungalow on north side of Thompson Place between Somerset Road and Garland St.

Va., Bristol—J. F. McCrary will erect residence at Lawrence Ave. and Grove St., Lee Heights.

Va., Danville—Henry C. Leigh has plans by J. B. Heard, Danville, for erection of residence on W. Main St.; cost \$10,000.

Va., Richmond—J. S. Cruikshank will erect two brick dwellings at Wilmington Ave. and Hermitage Road to cost \$11,486.

Hospitals, Sanitariums, Etc.

Ala., Anniston—Board of Trustees, J. D. Garner, Chairman, plans to erect tubercular hospital with bequest of \$25,000 provided in the will of the late Robert E. Garner.

Ark., Hot Springs National Park—Baptist National Hospital Assn., Wm. Cooksey, V.-P.-Gen. Mgr., has plans by H. T. McGhee, 632-3 Madison Ave. Bldg., Memphis, Tenn., for erection of hospital; cost about \$2,000,000; 8 stories, reinforced concrete, steel and pressed brick, concrete roof garden, concrete and tile floors, concrete foundation, hollow tile, interior tile, metal doors, ornamental terra cotta, vaults, steel sash and trim, vaults, mail chutes, vault lights; plans to build first unit of 150 beds this year. Address Col. Jno. R. Forydee, Hot Springs, Ark. (See Machinery Wanted—Hospital Equipment.)

Fla., Tampa—City, Perry G. Wall, Mayor, will vote April 15 on bonds to erect Gordon Keller Hospital and additional ward or hospital for negroes. (See Buildings proposed—City & County.)

Md., Perryville—United States Veterans Bureau, Frank T. Hines, Director, L. H. Tripp, Ch. of Constr. Div., Arlington Bldg., Washington, D. C., has drawings in preparation for erection of \$1,000,000 psycho-neurotic addition to U. S. Veterans Hospital No. 64, Federal Park, and bids will be invited in spring; 6 reinforced concrete, hollow tile and stucco buildings; cement floors, reinforced concrete foundations, built-up roofs, metal doors, ventilators, steel sash and trim, wire glass. (Lately noted.)

Tenn., Knoxville—Drs. R. P. Oppenheimer and H. J. Kelso will erect hospital; accommodate 50 beds.

Tex., Seymour—Baylor County, Ernest Tibbets, Judge, is having plans prepared by A. B. Withers, for erection of \$40,000 hospital. (Lately noted.)

Va., Norfolk—Protestant Hospital will erect addition to be used for negro ward; Johnson Construction Co., Norfolk, is lowest bidder at \$29,953; reinforced concrete construction.

Hotels and Apartments

Ala., Birmingham—Brice H. Strelt plans to erect \$10,000 apartment house on Fifteenth Ave., south and Fifteenth St.

Ala., Birmingham—Mrs. Maggie Webb contemplates erection of \$15,000 apartment house at Forty-first St., South and Clairmont Ave.

Ala., Birmingham—Salvation Army, Ferdinand Braun, Staff Capt., Atlanta, contemplates erection of hotel for laboring men; will contain 100 bedrooms each with running hot and cold water with bath rooms.

Ala., Jasper—Directors contemplate erection of 12 or 15 additional rooms to Hotel Collins.

Ark., Hoxie—Mrs. T. B. Gibson will open bids Mar 3rd, for erection of hotel annex and residence after plans by Lambert de Koning, Texarkana, Ark.; 34 rooms and 2-story residence; 16 bathrooms; brick, reinforced concrete foundation, wood flooring, composition roofing, steam heat.

Fla., Buena Vista—Buena Vista Hotel Co., Inc., W. W. Goucher, Pres., announced that plans are progressing rapidly for erection

of hotel on site of Peacock Inn, on N. E. Second Ave., at 36th St.

Fla., Key West—J. S. Dongo is promoting erection of commercial hotel.

Fla., Lakeland—Victor Leonard contemplates erection of apartment house on South Florida Ave.; to contain 24 rooms divided into apartments of 3 and 4 rooms each; cost \$14,000; 2 stories.

Fla., Miami—A. H. Hurff, Swedesboro, N. J., has purchased lot on N. E. Fifth St. between Second Ave. and the bay, and contemplates erection of 120-room hotel.

Fla., Miami—G. B. Garrett contemplates erection of \$18,000 apartment house on N. E. Fourteenth St.

Fla., Miami—Mrs. L. O. Corbett contemplates erection of 2-story, concrete block, 8-apartment building at 1020 S. W. Second St., to cost \$15,000.

Fla., Pensacola—Pensacola Gulf Beach Co., Theodore Baars, Pres., contemplates erection of \$1,000,000 hotel in connection with \$1,650,000 expenditure. (See Miscellaneous Buildings Proposed.)

Fla., Punta Gorda—T. C. Murray, 428 E. 92nd St., New York City, is reported to contemplate erection of 50-room hotel on corner Retta Esplanade and Taylor Sts.

Fla., St. Petersburg—Oxford & Sumner contemplates erection of \$18,000, 3-story apartment house on Ninth St. south; hollow tile, contain 16 apartments.

Fla., West Palm Beach—Alhambra Investment Co., Phil Clarke, Pres., contemplates erection during summer of \$250,000 apartment hotel on corner Olive St. and Second Ave.; Spanish design, 3 stories, contain 88 furnished apartments; 2 elevators; Harvey & Clarke, Archts.; E. H. Bartow will have charge of construction; both West Palm Beach.

Ky., Owensboro—S. R. Ewing will not erect \$700,000 apartment house as lately noted.

La., New Orleans—Guarantee Development Co., Inc., Granville Sewell, Adv. Mgr., contemplates erection of 600-room addition to Hotel Roosevelt; Rudolph Herpich, Const. Engr., and Perry L. Moses, Const. Decorator; Toledano, Wogan & Bernard, Archts., Title Guarantee Bldg., New Orleans, advises that plans will be on market on or about April 1st, and bids will be received on or about May 1st. (Lately noted.)

Md., Baltimore—Clyde N. & Nelson Friz, Archts., 2010 Lexington Bldg., advises that opening of bids for erection of \$800,000 apartment house for Ral Parr, 219 E. Redwood St., will be postponed until late summer. (Lately noted.)

Md., Frostburg—Frostburg Commercial Club is promoting erection of \$250,000 hotel; will start campaign to sell \$150,000 in stock, and bond structure for \$100,000; to contain 80 rooms; Hockenbury System, Inc., Harrisburg, Pa., will help to finance.

Mo., St. Joseph—Construction Service Co. is reported to contemplate erection of \$300,000 apartment building.

N. C., Charlotte—B. W. Bartholomew contemplates erection of \$19,500 apartment house on North Alexander St., to contain 24 rooms and accommodate 6 families; F. L. Bonfoey, Archt., Charlotte, N. C.

N. C., Goldsboro—R. H. Edwards, Genl. Chmn. Campaign Exec. Comm. contemplates erection of hotel at corner Center and Walnut Sts., on site of Kennon Hotel; will contain 125 rooms, 100 with private baths; cost \$517,000 not including furnishings. (Lately noted—Hockenbury System, Inc., Harrisburg, Pa., arranged finances).

N. C., Greensboro—James T. Morehead is

reported to contemplate erection of 12-story, 200-room hotel at Greene and Sycamore Sts., to cost \$1,000,000; cost of building about \$650,000, furnishings about \$135,000, land valued at \$150,000; Charles C. Hartmann, Archt., Greensboro, N. C.

N. C., Rich Square—Mrs. Cora L. Baugham contemplates erection of hotel to replace one recently destroyed by fire; brick; contain 20 rooms, lobby, cigar stand, hot and cold water, electric lights, steam heat.

S. C., Greenville—Mrs. M. C. Sanders contemplates erection of \$10,000 apartment house at Townes St. and Stone Ave.; 2 stories; Paul J. Oeland, Archt., Greenville, S. C.

Tenn., Memphis—O. B. Moore contemplates erection of 2-story brick veneer 4-apartment building at 115 North Montgomery St., to cost \$10,000; heat, \$1000; garage, \$500.

Tex., San Antonio—I. N. Bettison, 1145 W. Russell Place, will erect 22-room apartment building on Lovers Lane.

Va., Danville—W. T. Cousins is having plans prepared by E. R. James, Danville, for conversion of dwelling on West Main St. into 4-family apartment; cost between \$18,000 and \$20,000.

Va., Farmville—Dr. J. L. Jarman is Chmn. of campaign for erection of hotel; will contain 50 or more rooms with dining room, lounging rooms, banquet hall, lobby, etc.; Archt. engaged to draw plans; Frank B. Mayer of Hockenbury System, Inc., Harrisburg, Pa., is interested.

W. Va., Fairmont—J. Y. Hamilton contemplates erection of apartment and garage on Sixth St., to cost \$10,000; brick, 3 stories, 40x50 ft.

Miscellaneous

Ala., Albany-Decatur—Amusement Park—B. L. Malone contemplates erection of amusement park on 21 acre tract on West Moulton St., to include athletic field.

Fla., Pensacola—Pensacola Gulf Beach Co., Theodore Baars, Pres., plans expenditure of \$1,650,000 for erection of hotel, pavilions and grounds; plans include 300-guest room hotel to cost \$1,000,000; furniture and furnishings of hotel to cost about \$300,000; dancing and bathing pavilions, restaurant and development of ground to cost \$250,000. (Lately noted.)

Fla., Stuart—A. P. Krueger contemplates erection of automobile salesroom, office and store building; 20 rooms upstairs for use of transients; cost \$70,000; 10 stories, fireproof tile construction; H. E. Gallop, Architect, 646 N. Michigan Ave., Chicago, Ill., (Lately noted.)

Okl., Oklahoma City—Sorosls Club contemplates erection of brick club building to cost \$33,000.

Okl., Okmulgee—Park—Chas. E. Douglas is reported to contemplate erection of \$100,000 park; plans include swimming pools, dance pavilions, playgrounds, etc.

Tenn., Knoxville—Home—Mrs. J. E. Hasley, matron of Home for Friendless Babies, will soon start drive to raise \$50,000 for erection of fireproof Home.

Tenn., Memphis—Home—Memphis Council of Social Agencies, Jno. B. Edgar, Pres. Board of Directors, accepted plans for erection of 2 first units of Charles Wilson Children's Home prepared by Hanker & Cairns, Archts., Memphis, Tenn.; site in Douglas Park donated by Memphis Park Commission; cost \$25,000; frame construction, exterior finish, composition shingle roofing; will be built on cottage plan. (Lately noted.)

Tex., Brownwood—Fair—Brown County Fair Assn., Earl Looney, Pres., contemplates erection of fences, grandstand with 5000 capacity and agriculture buildings at county fair.

Tex., Corsicana—Home—Board of Trustees of I. O. O. F. contemplates improvements and additions to Widows and Orphans' Home to cost \$110,000; 2 stories, asbestos shingle roof, concrete foundation, metal ceilings, hardwood and concrete flooring; H. J. Eminins, Archt., Dallas, Tex.; address S. P. Spalding, Waxahachie, Tex., Chmn. (Lately noted.)

Tex., Kenedy—Kenedy County Club, J. B. Cannon, Pres., is having plans prepared by Beverly W. Spillman, Alamo National Bank Bldg., San Antonio, for erection of \$12,500 Cobblestone and log golf clubhouse. (Lately noted.)

Tex., San Antonio—Catholic Woman's Association, Building Comm. contemplates erection of 4-story building to house working girls; will have swimming pool, dance hall and cafeteria; cost \$60,000; brick and stone construction; Jno. Boyle and W. F. Fleming, Advisory Comm.

W. Va., Huntington—J. L. Wilson and others are interested in erection of Vanity Fair building to replace structure recently destroyed by fire at \$50,000 loss; 4 or 5 stories; to contain roof garden and display for used cars.

Railway Stations, Sheds, Etc.

Ala., Jackson—Southern Railway, Henry W. Miller, Vice-pres., Washington, D. C., submitted plans for extensions and changes to depot building; Alabama Public Service Commission rejected plans as being inadequate.

Ala., Russellville—Southern Railway Co., Henry W. Miller, vice-pres., Washington, D. C., expects work to start before March 1st, on new depot.

Ark., El Dorado—Chicago, Rock Island & Pacific Rwy. Co., C. A. Morse, Ch. Engr., Chicago, Ill., contemplates erection of addition to frame depot, including concrete driveways.

La., Monroe—Chicago, Rock Island & Pacific Rwy. Co., C. A. Morse, Ch. Engr., Chicago, Ill., will not erect \$100,000 depot as lately noted.

W. Va., Fairmont—Baltimore & Ohio R. R. Co., H. A. Lane, Ch. Engr., Baltimore and Howard Sts., Baltimore, expects construction to start early in spring on passenger station at Walker's Siding; brick, 2 stories.

Schools

Ala., Ensley—Howard College, J. C. Dawson, Pres., contemplates expenditure of \$150,000 for erection of school; will convert Baptist Church into first unit and remodel 2 residences for school work; will later erect additional building.

Ark., El Dorado—School Board authorized Thompson & Harding, Archts., Little Rock, Ark., to prepare plans for erection of high school building to cost about \$337,000 and accommodate 1000 students. (Lately noted—contemplate \$400,000 bond issue).

Fla., St. Petersburg—School Board, Geo. M. Lynch, Supt., will call election Mar. 17th, to vote on \$225,000 bond issue; plans include erection of \$58,000 building in Euclid Blvd. section; \$38,000 building for negroes; \$26,000 addition to Glenoak school and other improvements. (Lately noted.)

Fla., Summerfield—Marion County Board of Education, Ocala, Fla., has plans by MacKay & Co., Ocala, and will open bids Mar.

11th, for erection of 2-story high school building; hot air heating, brick and stucco with steel reinforcement, 85x95 ft., 8 class rooms and auditorium, 47x51 ft. (Previously noted.)

Ga., Atlanta—Oglethorpe University, Dr. Thornwell Jacobs, Pres., expects work to start soon on 3 buildings; plans call for addition of 2 wings to Lupton Hall and building to house Lowry School of Banking and Commerce.

Ga., Hinesville—Liberty County Board of Education accepted plans by Lloyd B. Breer, Valdosta, Ga., for erection of high school building.

La., Lafayette—Southwestern Louisiana University, E. L. Stephens, Pres., will open bids Mar. 18th for erection of 2-story Science Building; Favrot & Livaudias, Archts., Hibernia Bank Bldg., New Orleans.

La., New Orleans—Parish School Board will open bids Mar. 14th for erection of school building in square bounded by Carrollton Ave., Belfast, Apricot and Short Sts.

La., Pitkin—Vernon Parish School, Finly Stanly, Sec., Leesville, La., will open bids Mar. 18 for erection of 2-story brick school building and repairs and alterations in present school building; F. W. Steinman & Son, Archts., Beaumont, Tex. (Lately noted.)

La., Singer—Beauregard County Board of Education, De Ridder, La., has plans by R. S. McCook, Lake Charles, La., for erection of \$35,000 elementary and high school building.

Md., Baltimore—Board of Awards, Howard W. Jackson, Pres., will take bids within next few weeks for erection of Junior High school building at Gwynns Falls Park near Frederick Road; 3 stories, cost \$1,000,000 to \$1,500,000, hollow tile, interior tile, metal doors, ventilators, concrete floors, ventilators, wire glass, slate and slag roof; Smith & May, Archts., Calvert Bldg., Baltimore, Md. (Lately noted.)

Md., Baltimore—St. Ambrose Catholic Church, Park Heights and Wylie Aves., contemplate razing Hotel Suburban, early in March, for erection of parochial school; 12 rooms, stone construction; first unit of group to be erected in next 10 years; will include rectory, church building, convent and school.

Md., Cumberland—Allegheny County Board of Education, W. L. Sperry, Pres., will open bids Mar. 11th, at 105 South Center St., for erection of brick school building, Frederick St., and brick addition to Virginia Ave. school.

Md., Hagerstown—Washington County was authorized to issue \$600,000 bonds for erection of school buildings; plans are complete for all 2 and 4-room buildings to be erected; contemplate erection of central high school building in Hagerstown and buildings at Boonsboro, Clear Springs, Williamsport and other towns. Address Chas. A. Weagley, Pres. Board of Education. (Lately noted.)

Miss., Biloxi—School Board will open bids Mar. 10th, for erection of Back Bay and East End schools; each cost about \$40,000; bids rejected on 2 previous occasions and plans for former have been revised by Carl Matthes and latter by W. T. Harrison. (Lately noted.)

Miss., Tehula—Tehula Consolidated School District, W. W. Gwin, Trustee, has plans in progress by F. R. McGoy, Greenwood, Miss., for erection of high school building. (Lately noted—voted \$40,000 bonds.)

Mo., Agency—Consolidated School District No. 4 will hold election Mar. 15, to vote on \$38,000 bond issue for erection of grade

and high school building; "T" shaped, 100x100 ft., first floor will be auditorium and gymnasium; Siemens Arnold, Archts., St. Joseph, Mo.

Mo., Joplin—Board of Education, Jesse Zook, Sec., rejected all bids for erection of school on East Central School site at Eighth St. and Kentucky Ave.; will take new bids; Smith & Van Pelt, Archts., 219 Frisco Bldg., Joplin, Mo. (Lately noted.)

Mo., New Bloomfield—New Bloomfield Consolidated School District contemplates erection of school building to replace one recently destroyed by fire.

Mo., Stockton—Board of Education will soon call election to vote on \$50,000 bond issue for erection of high school building.

N. C., Asheville—Buncombe County Board of Education will open bids Mar. 4 for erection of brick school building in Venable Special School Tax District, Lower Hominy Township; T. E. Davis, Archt., 20½ Spruce St., Asheville, N. C.

N. C., Fairview—Buncombe County Board of Education, Frank L. Wells, Supt., has purchased site on state highway and contemplates erection of \$50,000 school building.

N. C., Maiden—Board of Trustees will open bids Feb. 26, for erection of school building; Benton & Benton, Archts., Wilson, N. C.

N. C., Newton—Catawba County Board of Education will open bids Mar. 4 for erection of school building for Startown High School; Q. E. Herman, Archt., Hickory, N. C.

N. C., Oxford—Board of Directors of Oxford Orphanage has plans by C. C. Hook, Archt., Charlotte, N. C., for erection of school building on campus. Bids opened Feb. 23rd. (Lately noted.)

N. C., Salisbury—Executive Comm. of Board of Educational Institutions of Lutheran Synod of North Carolina, elected A. B. Barringer, Liberty, N. C., as financial secretary, and will start appeal to raise \$75,000 for erection of dormitory.

N. C., Spencer—School Board has plans in progress for erection of \$60,000 high school building.

Okla., Ponca City—Board of Education, Miss Ida Mae Rogers, Clerk, will open bids Mar. 6th, for erection of school building and for installation of wiring, heating and plumbing systems. (Lately noted—voted \$81,000 bond issue.)

S. C., Edgefield—Edgefield County Board of Education, W. W. Fuller, Supt., contemplates bond issue for erection of central high school to serve Colliers, Flat Rock, Red Hill and Antioch School Districts.

S. C., Gaffney—Building Committee of Limestone College, W. C. Hamrick, Chmn., will open bids Mar. 18th (lately noted Mar. 8th) for erection of Hamrick Science Hall, Carroll School of Fine Arts and President's Home; cost \$50,000, \$50,000 and \$20,000; plans and specifications may be seen at office of Wilson, Berryman & Kennedy, Archts., Columbia, S. C.; Wilson and Gastonia, N. C.; Builders Exchanges, Columbia, S. C. and Atlanta, Ga.; Chambers of Commerce, Charlotte and Greensboro, N. C.; E. S. Draper, Landscape Archt., Charlotte, N. C. (Noted in detail Feb. 21st.)

S. C., Spartanburg—School Board, Dr. Frank Evans, Supt., contemplates \$250,000 bond issue for erection of school buildings. (Lately noted.)

Tenn., Chattanooga—School Board, Fred B. Frazier, Chmn., will open bids March 3, for erection of Third District school building; separate bids on plumbing, heating and wir-

ing; R. H. Hunt Co., Archts., Chattanooga, Tenn. (Lately noted.)

Tex., Beaumont—School Board, J. D. Roberts, Pres., will hold election Mar. 10th, to vote on \$150,000 bond issue for repairs to all public school and erection of gymnasium for high school. (Lately noted.)

Tex., Camp Wood—Real County Board of Education, Leakey, Tex., selected Will N. Noonan, 240 Moore Bldg., San Antonio, to prepare plans for erection of \$17,000 brick school building; 5 rooms and auditorium.

Tex., Crandall—Board of Education will call election March 1st, to vote on \$40,000 bond issue for erection of 2-story school building; brick, concrete frame and stone trim.

Tex., Denton—School Board contemplates \$25,000 bond issue for equipping ward school and senior high school buildings.

Tex., Gilmer—Dickson Colored Orphanage, Board of Directors, Eli Sanger, Chmn., will enter campaign to raise \$125,000; plans include girls' dormitory, \$25,000; administration hall, \$30,000; domestic science hall with chapel and auditorium, \$25,000; sweet potato curing plant, \$5,000; electric lighting system, \$2,000; accepted \$2,000 donation for erection of 2-story frame building.

Tex., Houston—Board of Education of Houston Independent School District, H. L. Mills, Business Mgr., 1600 Washington Ave., will open bids Mar. 5th for erection of grade school building; separate bids on construction, heating, plumbing, wiring, side-walks, curbs and gutters; plans and specifications may be secured from Endress & Cato, Archts., 831-2 Bankers Mortgage Bldg., Houston. (Lately noted.)

Tenn., Jackson—City, Lawrence Taylor, Mayor, plans election on \$890,000 bonds including \$115,000 for enlarging schools.

Tex., Kingsville—Kingsville Independent School District contemplates bond election for erection of school building to cost between \$35,000 and \$40,000.

Tex., Kleburg—Board of Education will call election March 15th, to vote on \$13,000 bond issue for erection of brick school building.

Tex., Knox City—Knox City Independent School District will call election Mar. 8th, to vote on \$40,000 bond issue for erection of brick and tile school building. Address W. W. Hyde, Sec., Board of Trustees.

Tex., Luling—Luling Independent School District will hold election Mar. 18th, to vote on \$100,000 bond issue for school improvements. Address Pres., Board of Trustees. (Lately noted.)

Tex., Mabank—Board of Education voted \$32,000 bond issue for erection of school building. (Lately noted.)

Tex., McAllen—Baptist Churches of Southwest Texas contemplate work to start this year on erection of college to cost \$250,000.

Tex., Plainview—Plainview Independent School District contemplates erection of school building; brick, concrete frame and stone trim; expect bond election soon. Address W. E. Patty, Supt.

Tex., San Saba—L. Harrington & Co., Engrs. and Archts., Houston Bldg., San Antonio, will open bids Mar. 12th, for erection of 2-story school building; brick, concrete frame and stone trim; cost \$60,000; separate bids on construction, heating, plumbing, electric wiring and supplies. (Lately noted.)

Va., Chester—Chesterfield County Board of Education, T. C. Williams, Supt., selected Fred A. Bishop, Petersburg, to prepare plans for erection of addition to High school build-

ing; fireproof, 6 rooms and auditorium, cost about \$40,000. (Lately noted.)

Va., Hopewell—School Board selected Fred A. Bishop, Petersburg, to prepare plans for erection of fireproof high school building; 22 class rooms, auditorium to seat 800, gymnasium, domestic science, manual training departments; cost \$150,000. (Lately noted.)

Va., Lynchburg—Woman's Missionary Society of the Northern Methodist Church, contemplates erection of 3-unit structure for training school for negro girls; will accommodate 60 girls.

Va., Woodlawn—Carroll County Board of Education, Hillsville, Va., selected Fred A. Bishop, Petersburg, to prepare plans for erection of 9-room school building with auditorium to seat 500; frame construction, stucco exterior, cost \$25,000. (Lately noted.)

W. Va., Adamston—E. J. Wood & Son, Archts., Lowndes Bldg., Clarksburg, W. Va., advises that operations on high school building has been postponed until 1925; address Board of Education of Coal District. (Lately noted.)

W. Va., Charleston—Charleston School District, S. E. Weber, Supt., has plans by Russ Warne, Masonic Bldg., Charleston, and will open bids about April 1st, for erection of Junior High School building at Charleston and Garvin Sts.; cost \$300,000, 2 stories, brick construction, fireproof, 26 class rooms, concrete foundation, slag roofing, terrazzo and hardwood flooring, hollow tile, interior tile, metal doors, ventilators. (Lately noted.)

W. Va., Huntington—State Board of Control, Jas. S. Lakin, Pres., Charleston, does not contemplate erection of president's home at Marshall College. (Lately noted.)

Stores

Fla., St. Petersburg—T. J. Rowe contemplates erection of 2-story, hollow tile and frame, store and apartment building to cost \$30,000.

Fla., West Palm Beach—W. H. DaCamara, Vice-pres. and Gen. Mgr. Palm Beach Mercantile Co., has purchased property on Narcissus St. and contemplates erection this summer, of 4-story fireproof building.

Ky., Anco—Meams-Haskins Coal Co. will erect store; contract at once. (See Buildings Proposes—Dwellings.)

La., Opelousas—George Abdalla interests contemplate erection of annex to Main St. store to cost \$25,000.

La., Opelousas—D. M. Pellerin contemplates erection of store building on West Landry St.

La., Rayne—Mr. Dorris Andrus has purchased 2 lots on Adams and Harrop Sts., and plans to erect store building on corner and move old building from present site to place adjoining proposed building.

Mo., Richmond—Hughes Realty Co. contemplates rebuilding business block recently destroyed by fire.

Mo., Springfield—Mrs. Agnes Cowan will remodel business building at 302 College St.

Mo., Springfield—W. W. Payne contemplates erection of brick store building at Grand and New Sts.

N. C., Greensboro—Al. Wirth, Archt., is in charge of work on Tipp's store on South Elm St., to cost \$12,000 to \$15,000; depth will be increased from 50 to 150 ft.; show windows will be deepened; new equipment and furnishings.

Okl., Oklahoma City — Jno. Sinopoulo contemplates expending \$12,000 for repairs to business building.

Tenn., Knoxville—Daniel Briscoe Co. will

take bids in a week or 10 days for erection of \$150,000 store; 6 stories, mill construction, 74x140 ft., composition roofing, hardwood flooring, vaults, vault lights, ventilators, steel sash and trim, wire glass; R. F. Graf & Son, Archts., Knoxville, Tenn. (Lately noted.)

Tenn., Knoxville — R. F. Graf & Sons, Archts., advises that erection of 4-story building on Jackson Ave. for C. M. McClung & Co., has been postponed. (Lately noted—to award contract Feb. 1.)

Tenn., Knoxville—Service Auto Parts Co., has plans by A. E. Gredig and expects work to start immediately on 2-story brick building at Emory Place.

Tex., Orange—Sokolski Brothers contemplate erection of 2-story fireproof store building at Corn. Front and Fourth Sts.; two 33-ft. front stores, 100 ft. in length.

Tex., San Antonio—Seutter & Simons, Archts., Moore Bldg., opened bids for erection of store and apartment building for I. Goodman; J. M. Oldham, low bidder at \$22,969; plumbing, West I. Gutzeit low bidder at \$2294; wiring, Travis Electric Co., low bidder at \$754; brick, concrete and stone construction. (Lately noted.)

Tex., Vernon—Dixon Dry Goods Co., has plans in progress for erection of 2-story store and office building. (Lately noted—destroyed by fire.)

W. Va., Huntington—B. G. Cain contemplates erection of 3-story business building at Third Ave. and Sixth St. to cost \$35,000.

Theatres

Mo., Marshfield—E. W. Brooks contemplates rebuilding theater building damaged by fire; 2 stories, brick, 36x110 ft., concrete flooring and foundation, hollow tile, metal ceilings, ventilators.

Va., Suffolk—Wm. H. Jones Estate opened bids for erection of theater and business

building on Main St.; W. S. Tebo, Suffolk, was low bidder at \$67,550; contract not awarded. (Noted in detail Jan. 17th.)

W. Va., Bluefield—Chas. A. Middleburg, Charleston; A. B. Hyman and F. Middleburg, of Huntington; Hyman Bank and Louis Shore of Williamson; George Brown of Bluefield, compose corporation contemplating erection of theater to cost over \$200,000; 3 stories, 20 x 100 ft., ground floor for lobby and 2 floors of offices; theater will have seating capacity of 2000.

Warehouses

Ala., Tallahassee—Mt. Vernon Woodberry Mills are having plans prepared by J. E. Sirrine & Co., Engrs., Greenville, S. C., for erection of warehouses and mill village containing 175 dwellings, in connection with mill development.

Fla., Jacksonville—Geo. W. Trout of Chicago and Jacksonville, purchased Basnett Bldg. on East Bay St., and contemplates erection of warehouse.

Ga., Columbus—Central of Georgia Rwy. Co., C. K. Lawrence, Ch. Engr., Savannah, Ga., contemplates erection of storage warehouse on Thirteenth St. to cost \$75,000.

Mo., Bethany—Bethany Ice & Cold Storage Co. has tentative plans for erection of warehouse on Central Ave.

Mo., Seymour—McMahan-Hart Supply Co. has purchased site and contemplates erection of warehouse

Mo., St. Joseph—Missouri Rubber Products Co., has plans and specifications for erection of \$500,000 warehouse and administration building at Twenty-second St. and Garfield Ave.; first unit of large plant to be erected.

Va., Danville—Tobacco Growers' Co-Operative Marketing Assn., Oliver J. Sands, Richmond, executive director, contemplates purchasing tract of land below Southern Rwy. station as site for storage warehouse.

BUILDING CONTRACTS AWARDED

Association and Fraternal

Miss., Gulfport—Gulfport Lodge of Elks let contract to Shaw & Woleben, Gulfport, for erection of \$20,000 building. (Lately noted.)

Tenn., Knoxville—Chas. L. Henck, 211 W. Clinch Ave., let contract at \$35,000 to Roehl & Gerwin, Knoxville, to erect 3-story and basement building for Golden Rule Lodge No. 177, I. O. O. F.; 50x90 ft.; concrete, steel and brick, maple and oak floors, concrete foundation; K. A. Paine & H. V. Eng. of Heat-Rite Heating Co., heating and plumbing; Wright-Cason Electric Co., wiring; R. F. Graf & Sons, Archts., Arnstein Bldg., all Knoxville. (Lately noted.)

Tex., Dallas—Dallas Lodge No. 44, I. O. O. F., Sherman C. Redd, Chmn., Bldg. Comm., let contract to Stearman & Son, Dallas, to erect 2-story brick and concrete building, Young and Pearl Sts.; cost \$32,000; stores on first floor, lodge rooms above; Levy Plumbing Co., Dallas, plumbing; Arthur A. Brown, Archt., Dallas. (Lately noted.)

Tex., San Antonio—Young Men's Christian Assn., R. L. Hillyer, Chmn., Bldg. Comm., let contract to Lon T. Wright & Co., City Natl. Bank Building, San Antonio, for erection of 6-story fireproof building, Martin and Navarro Sts.; cost \$259,029; brick, reinforced concrete frame, stone trim, concrete basement and swimming pool; Adams & Adams, Archts., Gibbs Bldg., San Antonio;

interior plans by Sherman W. Dean, Archts., Bldg. Bureau, International Comm., Y. M. C. A., 347 Madison Ave., New York City. (Lately noted.)

Bank and Office

Md., Baltimore—Baltimore Commercial Bank, Gwynn Crowther, Pres., Pratt St. and Market Place, let contract to Consolidated Engineering Co., Calvert Bldg., Baltimore, to erect branch bank building at 754 Washington Blvd.; cost \$30,000; 1 story, 19x62 ft., brick; Jos. Evans Sperry, Archt., Calvert Bldg., Baltimore.

Mo., St. Louis—Twelfth Street National Bank, 12th and Chouteau Sts., let contract to A. H. Haeseler Bldg. & Constr. Co., 621 Wainwright St., St. Louis, to erect building; cost \$85,000; 50x139 ft., one story, brick, iron and concrete, rubber tile floors, composition roof, concrete foundation, hollow tile, ornamental terra cotta, steel sash and trim, ventilators; E. A. Koenenman Electric Co., 1420 Pine St., wiring; Werner Hencke Plumbing Co., plumbing; Klipstein & Rathman, Archts., 1501 Chemical Bldg., all St. Louis. (Lately noted.)

N. C., Greensboro—Carolina Steel & Iron Co., J. W. McLennan, Sec., let contract to W. B. Hunt, Greensboro, to erect 2-story addition to office building; cost \$10,000; all contracts let and material purchased. (Lately noted.)

W. Va., Bluefield—Dr. Thos. E. Peery let

contract at \$235,000 to D. J. Phipps, Roanoke, to erect proposed 8-story office building at Bland and Federal Sts., foundation in course of construction; 60x100 ft.; fireproof, reinforced concrete frame, limestone trim and cornices, face brick exterior walls; J. E. Kingsbury, Bluefield, contract for footings and basement; W. A. Bodell, Bluefield, heating and plumbing, \$24,000; 2 electric elevators; Mahood & Van Dusen, Archts., Bluefield.

Churches

Ala., Avondale (Ind. Sta., Birmingham)—First Methodist Church, Arthur Smith, Chmn., Avenue E, Birmingham, let contract to Day & Sachs, Birmingham, to erect \$55,000 Sunday school building, 40th St., near Avondale Park; brick; marble trim; seating capacity 1300; Miller & Martin, Archts., Birmingham. (Previously noted.)

Ala., Cullman—Christ English Lutheran Church, Conrad Schneider, member, Bldg. Comm., will erect light colored brick building, 2nd Ave., East, and 5th St.; Wm. Schlossburg, Contr., Cullman.

N. C., Lenoir—First Baptist Church, Dr. W. C. Tyree, Pastor, let contract at \$102,480 to Jones Bros. Construction Co., Hickory, to erect building; separate bids for wiring and heating; total cost about \$150,000. (Lately noted.)

S. C., Williston—Baptist Church, W. R. Davis, Pastor, is having plans prepared by Willis Irvin, Lamar Bldg., Augusta, Ga., for erection of \$40,000 to \$45,000 building; 2 stories and balcony; 117x66 ft.; concrete and wood floors, Barrett specification roof, hollow tile, brick veneer, rolling partitions, ventilators, steam heat, 4 toilets; day labor. (Lately noted.)

Tex., Handley—First Baptist Church, E. W. Gross, Pastor, let contract to complete structure; basement finished.

Tex., San Antonio—Alamo Heights M. E. Church, South, let contract at \$16,990 to A. Vogel & Co., 319 Jones Ave., San Antonio, for erection of first unit of \$40,000 building, Broadway and Poco St.; 2 stories, 42x82 ft., semi-fireproof construction, wood and concrete floors, concrete foundation, gravel roof, hollow tile; J. Clyde Williams, Archt., Moore Bldg., San Antonio; work starting. (Lately noted.)

Va., Charlottesville—First Baptist Church let contract to Charlottesville Lumber Co., to erect \$125,000 addition for Sunday School; 86x89 ft.; 4 stories; brick and tile; 36 classrooms to seat 1850; roof garden with capacity of 400, assembly room to seat 800.

City and County

Ala., Birmingham—Fire Station—City let contract at \$13,336 to J. O. Haley & Son, Birmingham, to erect fire station at 8th Ave. and 6th St., Graymont; fireproof; E. B. Van Keuren, Archt., Birmingham. (Lately noted.)

La., Cedar Grove—Fire Station—City let contract to P. A. Johnson, Cedar Grove, to erect fire station at 69th St. and Division Ave.

Md., Baltimore—Community House—Board of Park Commissioners, Lexington and Gay Sts., let contract to DeCou & Davis, 404 W. Baltimore St., Baltimore, to erect music pavilion and community house in Patterson Park; cost \$47,750; 100x32 ft.; surrounded by porches which will be enclosed in winter; Mottu & White, Archts., 527 N. Charles St., Baltimore.

Tex., Dallas—Fire Station—City Commission awarded contract to E. F. Merrell, Dallas, to erect fire station at Poplar and Wilson Sts.

Tex., Lubbock—City Hall—City let contract to Ramey Bros., El Paso, to erect city hall; cost \$80,000 to \$85,000; Young & Pratt, Lubbock, plumbing and heating; Rigsbee Electric Co., Dallas, wiring; Sanguinet-Staats & Hedrick, Archts., San Antonio.

W. Va., Clarksburg—Courthouse—Harrison County Court is considering election May 27 on \$1,000,000 bonds issue to build courthouse.

W. Va., Huntington—Courthouse—Cabell County Court, R. S. Douthat, Clk., has awarded contract to King Lumber Co., Charlottesville, Va., to erect three-story addition to courthouse; cost \$133,900; steel girders; R. L. & Sidney L. Day, Archts., Huntington. (Lately noted.)

W. Va., Huntington—Jail—Cabell County, R. D. Douthat, Clk., County Court, let contract for wiring and plumbing of jail to McKellar Electric Co. and Bockway Plumbing & Supply Co., both Huntington, for which C. H. Smith, Huntington, has general contract at \$20,830 to remodel building; heating contract not let; 3 stories and basement, 100x50 ft., mastic floors; Bates, Franklin & Bowers, Archts., Huntington. (Lately noted.)

W. Va., Wellsburg—St. John the Evangelist Church, Rev. L. M. Hermanns, Pastor, let contract to Engstrom & Co., Wheeling, to erect \$50,000 building; E. J. Weber, Archt., Pittsburgh, Pa.

Dwellings

Fla., Jacksonville—J. H. Harris will erect \$16,000 residence on Challen St. near Herschell St.; 2 stories, tile and brick; Ponder-Hamill Co., Contr., Jacksonville.

Fla., Miami—Chas. H. Hopes, Glenn Falls, N. Y., let contract to Frank Lang to erect \$10,000 Spanish type residence in Water View Park.

La., Shreveport—Randle T. Moore, let contract at \$77,000 to Garson Bros., Shreveport, La., for erection of brick and stone residence, 951 Fairfield Ave.; cost complete \$90,000; 2 stories, hardwood floors, concrete foundation, tile roof; excavation begun; heating not let; electrical work and plumbing in general contract; E. T. Nield, Archt., Shreveport. (Lately noted.)

La., New Orleans—P. Veith, 2120 Jena St., let contract to C. E. Horton, New Orleans, for erection of \$22,750 residence, Napoleon and Jena Sts.; 2 stories, tile; J. Devlin, Archt., New Orleans.

La., New Orleans—R. E. Pettetier and E. Pumila have started construction of 5 duplex dwellings, 4507 S. Rocheblave, 4501-11 and 4512 S. Derbigny Sts.; frame and stucco, tile roofs and baths, hardwood floors, cost \$10,000 each.

La., New Orleans—Walter Battistella, 715 Esplanade Ave., has plans by and let contract at \$14,529 to Sam P. Simone, 2621 Lepage St., New Orleans, to erect dwelling at Esplanade Ave. and Royal St.; 26x52 ft., 2 stories, tile roof, frame, wood floors, concrete and brick foundation, Spanish tile roof, hollow tile, ornamental terra cotta; Jos. Petrie & Son, 806 Royal St., gas, steam heat and plumbing; Jas. Barker, 2621 Lepage St., wiring. (Lately noted.)

Md., Annapolis—Robt. Flora, Cincinnati, O., let contract to Samuel B. Dove, Annapolis, to erect dwelling on Southgate Ave., Murray Hill; cost \$22,675.

Md., Baltimore—Manhattan Realty Co. will erect three 2-story brick buildings, northwest side Belair Road, southwest of Parkwood Ave.; 18x30 ft., steam heat, cost \$9000; Fredk. E. Beall, 306 St. Paul St., Baltimore; construction by owner.

Md., Baltimore—Ten Hills Corp. let con-

tract to Frank Herbert & Son, 1107 Madison Ave., Baltimore, to erect 2-story frame dwelling on east side of Orchard Road, south of Edmondson Ave.; cost \$10,000; 32x44 ft., slag roof, steam heat.

Md., Baltimore—Walbrook Constr. Co. will erect 9 two-story brick dwellings, north and south sides Pressman St. near Poplar Grove St.; cost \$35,000; 21x32 ft.; steam heat; E. C. Bankert, Archt., 5511 Garrison Ave.; owner builds. (Lately noted.)

Mo., St. Louis—P. Guariglia, 7923A N. Broadway, let contract to H. Kissel, 4111 W. Florissant St., St. Louis, to erect 2-story tenement at 1004 Hornsby St.; cost \$9000; 25x45 ft., asphalt shingle roof, hot air heat; O. J. Popp, Archt., Odd Fellows Bldg., St. Louis.

Mo., St. Louis—Wernig & Hennell, 3536 Bailey St., has plans by and let contract to Pieper Construction Co., 3420 Louisiana St., St. Louis, to erect 2-story tenement at 3453 Pennsylvania St.; 34x52 ft., gravel composition roof, hot air heat.

Mo., St. Louis—Walter Jones, 618 Chestnut St., let contract to Jones Construction Co., 5549 Wells St., to erect four 2-story tenements at 5121-31 Northland St.; cost \$32,000; 27x40 ft., tar and gravel roofs, steam heat; W. Lorenzen Archt., St. Louis.

Mo., St. Louis—A. P. Richardson, 5201 Nottingham St., will erect three 2-story dwellings at 4950-58 Bancroft St.; cost \$15,000; owner builds.

Mo., St. Louis—J. Chas. Mueller & Son, 3129 N. Grand St., have plans by Nolte & Nauman, Fullerton Bldg., St. Louis, for erection of two 2-story brick tenements, 4106-18 Marcus St.; cost \$18,000; 30x46 ft., slate roof, hot air heat; owner builds.

Mo., St. Louis—Sophia Wethman, 4466 Swan St., let contract to A. J. Klaus, 2103 Prather St., to erect 2-story tenement at 4462 Swan St.; 26x46 ft.; composition roof; furnace heat; Kennerly & Stiegemeier, Archts., Title Guaranty Bldg., St. Louis.

Mo., St. Louis—Emile Zimmerman, 3129 N. Grand St., let contract to J. Chas. Mueller & Son, 3129 Grand St., to erect 2-story tenement at 4947 Cote Brillante St.; cost \$10,000; brick, 30x46 ft., slate roof, hot water heat.

N. C., Charlotte—J. H. Carson will erect 13 six-room frame dwellings on Miller St.; cost \$1000 each; also two 5-room frame dwellings on W. Wood Ave.; cost \$3000 each; 2-story, 7-room, frame residence at E. Boulevard and Vest Ave.; cost \$6000; B. W. Roberts, Contr., Charlotte.

N. C., Gastonia—J. H. Keller, of Newberger, Rankin & Co., let contract to A. C. Miller, Gastonia, to erect \$20,000 residence on New Hope Road; English type; 32x44 ft.; 2 stories; hardwood, concrete and rift pine floors; brick foundation; hollow tile; Piedmont Plumbing Co., heating and plumbing. White, Streeter & Chamberlain, Archts., Gastonia.

S. C., Gaffney—Donald Huggin will erect 5 frame dwellings on Lipscomb St.; cost \$10,000; 5 and 6 rooms; owner builds. (Lately noted.)

S. C., Winnsboro—Winnsboro Mills has plans by Lockwood, Greene & Co., Healey Bldg., Atlanta, Ga., for 35 dwellings; construction under supervision of architects who are taking sub bids on plumbing, electrical work, framing, painting, flooring and siding.

Tenn., Fountain City—Fountain City Land & Development Co. has started work on first of 10 dwellings in Fountain City Heights development; cost \$4500 to \$5500 each; W. H. Price is in charge of construction.

Tenn., Memphis — Ben P. Dlugach has started construction of 10 frame bungalows, Washington Ave. and Cooper St.; 1 story, pine and oak floors, concrete foundations, Barrett roofs; cost \$3000 each; P. J. Manning, electrical work; owner builds. (Lately noted.)

Tenn., Memphis—Palmer Bros. have permit to erect one 6-room and one 7-room brick veneer dwelling at 1725 Tutwiler St. and 678 Hawthorne St. for M. H. Palmer; cost \$10,000.

Tex., San Antonio—H. C. Thomas, 610 City National Bank Bldg., is erecting 28 frame dwellings on Carnahan Ave., Country Club Place; total cost \$140,000; 1 story, 5 and 6 rooms, oak floors, concrete foundations, wood shingle roofs; electrical work to Graham & Collins; plumbing, E. H. Jordan, both San Antonio; plans and construction by owner. (Lately noted.)

Tex., San Antonio—T. W. Labatt, 931 N. Olive St., let contract at \$27,000 to A. Vogel & Co., 319 Jones Ave., San Antonio, for erection of limestone residence and garage, 208 Summit Place; 2 stories, 30x60 ft., hardwood and concrete floors, concrete foundation, tin roof, ventilators, interior tile; Herbert S. Green, Archt., Alamo National Bank Bldg., San Antonio; heating let. (Contracts for electrical work and plumbing, lately noted.)

Hospitals, Sanitariums, Etc.

Ga., Augusta—United States Veterans Bureau, Frank T. Hines, Director, Arlington Bldg., Washington, D. C., let following contracts for erection of 250-bed addition to U. S. Veterans Hospital No. 62: J. C. Gleason, Augusta, heating and plumbing, \$133,546; King Lumber Co., Charlottesville, Va., remodeling existing main buildings, \$78,000; D. C. Barnett Co., St. Louis, Mo., electrical equipment, \$15,000; contract for construction of new buildings not let. (Details noted Jan. 10.)

La., Shreveport—Drs. J. A. Hendricks and T. P. Lloyd let contract to Glassell-Wilson Co., Inc., Sinclair Bldg., Shreveport, for erection of \$60,000 addition to Highland Sanitarium; 3 stories; 44x84 ft., fireproof, hollow and interior tile, steel sash and trim, concrete floors; wire glass, ventilators; Clarence W. King, Archt., Shreveport; all material purchased and sub contracts let. (Lately noted.)

Hotels and Apartments

D. C., Washington—Harry Wardman and Thos. P. Bones will erect \$1,500,000 apartment building to be known as Annapolis Building; fronts 200 ft. on H Street, 112.5 ft. on Eleventh Street and 95.5 ft. on Twelfth Street; reinforced concrete construction; Wardman Construction Co., Inc., Contr., 1430 K Street, N. W., Wardman & Waggaman, Archts.; both Washington, D. C.

Fla., Miami—A. M. LaSalle let contract to F. A. Fisher to erect 2-story, concrete block, stucco apartment house on N. W. Ninth Ave., to cost \$20,000; Henry LaPointe, Archt., both Miami.

Fla., Miami Beach—J. H. Semon of New York and Miami awarded contract to Chas. S. Ewing Co., Miami, at \$75,000, to erect 3-story, 19-apartment building at Collins Ave and 28th St.; reinforced concrete and cement block construction; concrete foundation, wood flooring, interior tile, J. M. built-up roofing; Pullen Zoll Electric Co., electric lighting; Quinn Plumbing Co., plumbing; M. L. Hampton, Archt.; all Miami. (Lately noted.)

Fla., Miami—H. S. Cox let contract to Culver & Philips, Miami, to erect \$18,000 apartment house on S. W. Sixth St.

Fla., Miami—Mrs. Wm. E. Cook let contract to A. H. Sherman, to erect 2-story, 4-family apartment building at 37 N. W. Seventeenth St., to cost \$12,000; J. C. Gault, Archt., both Miami.

Mo., Chillicothe—Allen McDowell awarded contract to I. N. Wilhide, Chillicothe, to erect 3-story apartment house at corner Elm and Ninth Sts.; construction Mar. 1.

Mo., Kansas City—Phillips Building Co., 609 Victor Bldg., will erect 2 apartment buildings; 4 stories, 40 apartments each; stone and concrete foundations; 57x126 ft. each; brick and steel frame construction; hollow tile, metal ceilings, interior tile, plaster board, concrete flooring, ventilators; Laitner Bros., 30th and Holmes Sts., heating and plumbing; Wm. LaPierre, electric lighting, both Kansas City; construction by owners. (Lately noted.)

Mo., St. Louis—M. I. Fleicher, Frisco Bldg., will erect 2-story tenement at 5402 Ruskin St., to cost \$10,000; 38x61 ft. composition roof, hot air heat; C. A. Kohlmeyer, Archt., 4933 Davison St., St. Louis; construction by owner.

Mo., St. Louis—Fred Marty, 4501 Virginia St., let contract to Theo. Winge, 3969 Burgen St., to erect 2-story tenement at 3217 N. Dakota St., to cost \$14,000; 46x36 ft., tar roof, brick, furnace heat. Contr. is also Archt.

Mo., St. Louis—D. Seeger, Frisco Bldg., contemplates erection of two 2-story tenement houses at 5403 Ruskin and 5211 Harney Sts., to cost \$20,000; 38x51 ft. each, composition roofs, hot air heat; C. A. Kohlmeyer, Archt., 4933 Davison St. Construction by owner.

Tenn., Nashville—Washington Realty Co., 21st Ave. S. and Portland St., will erect 3 story fireproof apartment house to contain 58 apartments of 3, 4 and 5 rooms each; brick walls, concrete floors, inside walls of tile; following contracts awarded: John Oman, Jr., excavating and foundation; W. S. Crandal, brick work; Tanksley Drumright Co., cut stone work; M. M. Graham & Co., carpenter work; W. H. Grewar Co., plumbing and heating; Herbrick & Lawrence, electric work; Chas. A. Howell, painting; Reynolds & Ferguson, plastering; W. H. Horn Co., oak flooring; Uncle Hiram Roofing Co., roofing; Hermitage Hardware Co., trimming hardware; A. Singer & Sons, tile and marble work; all Nashville; C. K. Colley & Co., Archts., 310 Fourth & First National Bank Bldg., Nashville; address J. Homer Colley, Sec., Treas. and Gen. Mgr.

Tenn., Newport—J. W. Brown, stone contr., Charlotte, N. C., has contract for erection of \$100,000 hotel to be called The Mims.

Tex., Texarkana—Texarkana Hotel Co. awarded contract to Stewart & McGehee Construction Co., Little Rock, Ark., to erect \$600,000 hotel at Schwartz Park; contain 200 rooms or more, 8 stories, reinforced steel and concrete with terra cotta trimmings, Otis Elevator Co., New York City, has contract for installation of elevators; Mann & Stern, Archts., Little Rock, Ark. (Lately noted.)

Va., Norfolk—T. J. East awarded contract to C. C. Pierce, Norfolk, at \$51,188, for erection of 18-family apartment house at Hampton Blvd. and Harrington Ave.; Wilson & Co., Norfolk, plumbing at \$10,900; 3 stories, brick; Philip B. Moser, Archt., Norfolk, Va.

Miscellaneous

La., Lafayette—Convent—Order of Perpetual Adoration, New Orleans, awarded contract to Lionel Favrot, New Orleans, to erect \$100,000 Novitiate convent on St. Mary's Ave. in Elmhurst addition, adjoining St. Mary's Orphanage; 2 stories and basement; 192x110 ft.; contain chapel, living rooms, parlor, music rooms, dining hall and kitchen; pressed gray brick; Sheppard & Co., Archts., New Orleans, La.

Tex., San Antonio—George Willis, Archt., Chandler Bldg., awarded contract to Lon T. Wright & Co., City National Bank Bldg., San Antonio, at 43,622, to remodel and erect additions to Chandler Home on West French Place; work will consist of addition of 20 rooms and remodeling of interior and exterior; Mrs. R. S. Ragsdale, Supt. (Lately noted.)

Railway Stations, Sheds, Etc.

Ga., Columbus—Central of Georgia Rwy. Co., C. K. Lawrence, Ch. Engr., Savannah, Ga., awarded contract to Geo. B. Swift Contracting Co., 189 W. Madison St., Chicago, Ill., to erect storehouse and oil house on Thirteenth St., to cost \$65,000.

Tex., Dallas—Missouri-Kansas-Texas R. R. Co., W. W. Whitenton, Vice-Pres., St. Louis, Mo., awarded contract to Bellows-Maclay Construction Co., Dallas, for erection of 8-story warehouse building to cost \$500,000, on site of old passenger station on Market St. and Pacific Ave.; reinforced concrete and steel construction; fireproof, 100x200 ft., 2 freight elevators; will be occupied under lease by Interstate Forwarding Co., W. I. Ford, Pres., Dallas; construction supervised by Frank Ringer, Ch. Engr., Missouri-Kansas-Texas R. R.; A. L. Sparks, Archts., care Ch. Engr. (Lately noted.)

Schools

Fla., Bushnell—Board of Public Instruction, W. T. Eddins, Supt., awarded contract to J. D. Walker, Bushnell to erect 2-story brick school building; MacKay & Co., Archts., Ocala, Fla. (Lately noted.)

Fla., Crystal River—Board of Public Instruction of Citrus County, Inverness, Fla., awarded contract to Martin & Borland, Orlando, to erect \$25,000, 2-story high school building; tile and face brick, wood flooring, tile roofing, hollow tile; D. A. Routh, Orlando, roofing; Selden Cypress Door Co., Palatka, Fla., mill work; F. H. Trimble, Archt., Orlando, Fla. (Lately noted.)

Fla., Gainesville—Board of Control, P. K. Yonge, Chmn., Aragon Hotel, Jacksonville, Fla., awarded contract to O. P. Woodcock, Jacksonville, at \$90,900, to erect library building at University of Florida; W. F. Martin, Dothan, Ala., plumbing at \$5115; to be built in 4 units, completed building to cost \$500,000; first unit will be finished about Dec. 1st; contain reading rooms, consultation rooms, offices, etc.; Edwards & Sayward, Archts., 101 Marietta St., Atlanta, Ga. (Lately noted.)

Fla., Parrish—Manatee County Board of Public Instruction, G. D. Gullet, Supt., Bradentown, Fla., awarded contract to E. W. Stoltz, Palmetto, Fla., at \$24,883.50, to erect school building; 2 stories, hollow tile, 10 classrooms and auditorium to seat 300; electric lighting plants and water furnishing plant. (Lately noted.)

Fla., St. Petersburg—Victor A. Blacke and A. C. Roundtree have contract for erection of 1-story, brick, stucco and tile school building near St. Petersburg; M. Lee Elliott, Archt., Tampa, Fla.

La., Eunice—St. Landry County Board of Education, W. B. Prescott, Supt., Opelousas, La., awarded contract to Caldwell Bros., New Orleans, to erect 2-story brick school building; 154x189 ft., 26 class rooms and auditorium, tile roofing, cast stone; Herman J. Duncan, Archt., 120 Murray St., Alexandria, La. (Lately noted.)

La., Baton Rouge—Louisiana State University, R. L. Himes, Sec. Building Comm., awarded contract to Caldwell Brothers, New Orleans, La., at \$57,000, to erect 4-story brick and concrete structure; 70x149 ft., faced with stucco, trimmed with terra cotta, steel sash, asbestos shingle roof. (Lately noted.)

La., Ruston—Lincoln Parish School Board, H. L. Campbell, Supt., awarded following contracts: North Side school to Davis & Jamerson, Ruston, at \$55,325; South Side school to C. C. Andrews at \$53,094; Negro school to Mitchell Bros., Ruston, at \$13,600; school at Simsboro to McClernon & Barham, Monroe, at \$25,823, 6 rooms and auditorium. (Lately noted.)

Mo., Kansas City—Redemptorist Fathers awarded contract to P. J. Morley, Kansas City, to erect parochial high school building; E. P. Madorie, Archt., Kansas City, Mo.

Okla., Muskogee—Bacone Indian College, Dr. B. D. Weeks, Pres., awarded contract to Jas. H. Reddick, Fort Smith, Ark., to erect dining hall and kitchen; cost \$54,000; 1-story, 31x117 ft.; Chas. Dawson, Archt., Muskogee. (Lately noted.)

Okla., Perry—Noble County Board of Education awarded contract to C. C. Cobble, Pauls Valley, Okla., for painting \$50,000 high school building.

W. Va., Institute—State Board of Control, Jas. S. Lakin, Pres., Charleston, expects work to start soon on erection of building at West Virginia School for Colored Deaf & Blind; cost \$50,000, 114x38 ft., concrete, tile and wood flooring, slate roofing, concrete foundation, 2 stories, hollow tile, interior tile; Wysong & Jones, Archts., Charleston, W. Va., construction by State Board of Control. (Lately noted—rejected all bids.)

Stores

Ala., Roanoke—J. J. Awbrey contemplates rebuilding store building recently burned by fire; brick and concrete, 37½x120 ft., 2 stories, tin roofing, concrete flooring, metal ceilings, vaults, ventilators, wire glass; construction by day labor.

Fla., Jacksonville—Joe Michael let contract to E. E. Collie, Jacksonville, to erect

2 store buildings on St. Johns Ave.; 25x50 ft. each; cost \$10,000.

Fla., Miami—Wm. R. Robbins of Robbins Roofing Co. awarded contract to P. J. Davis Construction Co., Miami, to erect 2-story store and apartment building N. E. Fourteenth St., to cost \$25,000; Louis D. Brum, Archt., Miami.

Fla., Ocala—George MacKay & Co. have contract for erection of block on South Main St. to be known as the R. Simmons Block; 114x70 ft., hollow tile with face brick and stucco front, built-up fireproof roofing, contain 6 store rooms with concrete floors; MacKay & Co., Archts., Ocala, Fla.

Fla., Orlando—Mrs. Marcus Floyd awarded contract to L. C. Townsend & Co., Orlando to erect 3-story building at Court & Pine Sts.; steel frame with tile and brick walls; 76x64 ft., concrete and wood flooring, concrete foundation, built-up roofing, hollow tile, interior tile, metal doors, ventilators, steel sash and trim, wire glass; Chas. Stuckie, Orlando, plumbing; Contr. is also Archt. (Lately noted—contract awarded to J. A. Peppercorn.)

Md., Baltimore—G. & S. M. Lang will erect 1-story brick building at 2858 Pennsylvania Ave., to cost \$20,000; 36x134 ft., Carey roof, W. G. Hammond, Contr.

Mo., Kansas City—Palace Clothing Co., 903-25 Main St., awarded contracts to Bickel Construction Co., Kansas City at \$500,000 to erect store building at N. W. cor. 12th and Grand Sts.; 7 stories now and 3 later; 85x115 ft.; concrete, tile and maple flooring; composition roofing, hollow tile, interior tile, metal doors, vaults, vault lights, ventilators, ornamental terra cotta, steel sash and trim, wire glass, concrete foundation; Fred E. McIlvain, Archt., 1012 Baltimore Ave., Kansas City, Mo. (Lately noted.)

Okla., Fairview—Tom Belson has contract for erection of business building.

Okla., Oklahoma City—F. A. Gross Construction Co., has contract for repairs to building at 408 Main St., to cost \$12,000.

Okla., Oklahoma City—Kerr Dry Goods Co., W. S. Bulkeley, Pres., awarded contract to Campbell & Price, Oklahoma City, to erect 8-story department store building on Main St. to cost \$750,000; 82x140 ft.; concrete and reinforced steel finished in white stone and buff brick; display windows around building; spiral staircases.

S. C., Gaffney—Dr. J. G. Pittman will erect 3-story and basement business building on site of burned Pittman Bldg. on Frederick St., to cost \$10,000; 2 stores on ground floor, 7 offices on second and one room for hall on

3rd floor; concrete and brick foundation; brick construction; plate glass front, rift pine flooring, 35x60 ft., tin roofing, ventilators, 1 vault; construction by Builders Supply Co. under supervision of L. Baker; Contr. is also Archt. (Lately noted.)

Tenn., Chattanooga—Ross-Hindman Co. awarded contract to D. F. Brandon, Chattanooga, at \$31,000, to erect 2-story building on Cherry St.; will contain 5 stores, 4 with 19-ft. frontage and 1 with 37-ft. frontage; cream brick exterior trimmed in terra cotta, base of show windows will be green marble, hardwood floors.

Tenn., Cleveland—A. Hartsell let contract for erection of 2-story brick store building on corner Ocoee and Central Aves., to cost \$15,000.

Tex., San Antonio—Dr. Conn L. Milburn awarded contract to Chas. H. Brient, San Antonio, to erect 2 store buildings on Main Ave.

W. Va., Bluefield—Dr. C. M. Scott awarded contract to C. W. Hancock & Sons, Bluefield, to remodel and convert St. Luke's Hospital, corner Bland and Raleigh Sts., into business and apartment block.

Warehouses

Fla., Jacksonville—Delcher Brothers Investment Co., will erect 7-story brick and concrete warehouse on east side May between Dora and Russell Sts., to cost \$60,000; W. T. Hadlow, Contr., Jacksonville.

Ga., Atlanta—Jno. F. Glen Co., Atlanta, has contract for steel for warehouse and office building for Western Union Telegraph Co., under construction by Hardy Badgett, Contr.; cost \$250,000; Daniel & Beutell, Archts.; S. S. Storer, Engr.; all Atlanta, Ga. (Noted in detail Aug. 9, 1923.)

Va., Norfolk—Port Commission, Barton Myers, Chmn., awarded contract to R. R. Richardson & Co., Norfolk at \$359,200 to erect 2 warehouses at Sewells Point; 1 story, concrete, both 99x1176 ft., concrete flooring, concrete foundations, tar and gravel roofing, sprinkler system, metal doors, steel sash; Folwell-Ahlskog, Designing Engrs., McCormick Bldg., Chicago, Ill.; Neff & Thompson, Consult. Archts., Norfolk, Va. (Lately noted.)

W. Va., Bluefield—Bluefield Hardware Co., E. A. Leonard, Jr., Pres., let contract to J. T. Heldrith, Tazewell, Va., to erect 4-story brick warehouse on Bluefield Ave. to cost \$90,000; 164x182 ft., concrete foundation, built-up roofing, concrete and maple flooring, metal ceilings, automatic sprinkler system. (Lately noted.)

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Amusement Park Devices.—D. M. Taggart, Auckland, New Zealand—To correspond with manufacturers of merry-go-rounds, etc. for amusement park.

Amusement Park Devices.—Fairlyland Amusement Co., 213 Browder St., Dallas, Tex.—Prices on amusement park devices.

Blower.—J. W. Marshall, West Point, Va.—To purchase new or second-hand blower, of the geared type for high pressure work.

Boat Hulls and Barges.—Western Barge Line, Inc., Thos. P. Craig, Pres., 3932 Evans Ave., St. Louis, Mo.—Bids on materials used in construction of wooden boat hulls and barges including boilers, main engine, auxiliary equipment, steamboat supplies.

Boiler and Fittings.—Port Comms., Suite 200, New Orleans Court Bldg., New Orleans,

La.—Bids until Feb. 28 to furnish 72-in. x 14 ft. 6 in. vertical boiler, fittings and stack for unloading tower.

Boilers.—See Boat Hulls and Barges.

Brake Shoes.—Joseph Stolz & Son, Inc., Commerce Ave., Highbridge Station, New York—To purchase 24 car brake shoes for standard gauge cars.

Brick.—Thies & Sherritt, Wewoka, Okla.—See Building Material.

Bridges.—Board of Public Works, Nashville, Tenn., will repair 2 bridges. Details under Construction News—Bridges, Culverts, Viaducts.

Bridges.—Mitchell County, Colorado, Tex., will pave 2 bridges. Details under Construction News—Bridges, Culverts, Viaducts.

Bridge.—Louisiana Highway Comm., Baton Rouge, La., will build 11 bridges. De-

tails under Construction News—Bridges, Culverts, Viaducts.

Bridge.—State Highway Comm., Montgomery, Ala. Details under Construction News Bridges, Culverts, Viaducts.

Bridge.—State Highway Comm., Richmond, Va., will build 7 bridges. Details under Construction News—Bridges, Culverts, Viaducts.

Bridge Construction.—J. J. Tarwater, Warrenton, N. C., or Marvin Smithey, Lawrenceville, Va.—Communicate with contractors to build steel and concrete bridge over Roanoke River at Mountain Rock.

Broom Machinery, etc.—T. M. Cox, care of The Charlotte Street Pharmacy, Inc., Box 941, Asheville, N. C.—To correspond with manufacturers of brooms and broom machinery, located with a radius of 300 or 500 miles of Asheville,

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned

Building Material.—Thies & Sherritt, Wewoka, Okla.—Prices on steel sash, vaults, galvanized sheets, lumber mill work, brick, lime, sand and gravel, tile and copings for armory and fire station.

Buttons (Aluminum).—George DeWerff, Box 55, Moro, Ill.—To correspond with manufacturers of aluminum buttons for both pants and coats.

Calcium Arsenate Plant.—J. E. Hillams, 628 Elgin Ave., Muskogee, Okla.—Estimates on plant for the manufacture of calcium arsenate.

Cars (Dump).—D. C. Elphinstone (Mchy. Dealers) 408 Continental Bldg., Baltimore, Md.—Prices on 2 way, 36-in. gauge 4/5 yd. Western dump cars.

Candy Making Machinery, Etc.—J. W. Hoopes, Denbigh, Va.—Data and prices on machinery for making candy, salted peanuts, etc.

Cars.—Henry Levis & Co., (Engineers) Commercial Trust Bldg., Philadelphia, Pa.—Thirty 4 yd., two way, 36-in gauge Western dump cars, steel draft beam preferred.

Chemicals, Drugs, Etc.—C. W. Wagner, Casilla, 137, Santiago, Argentina, S. A.—To correspond with manufacturers of chemicals, drugs, etc. with view to representation.

Clutches (Friction).—J. W. Marshall, West Point, Va.—To purchase two friction clutches, one to fit a 2-15/16-in. shaft and transmit 125 h.p. at 350 revolutions (RPM) and the others to fit a 2-3/16-in. shaft and will transmit 25 h.p. and 100 RPM.

Coal.—Government Fuel Yards, Bureau of Mines, Dept. of the Interior, Washington, D. C.—Bids until March 10 to furnish the District and Federal Government, within and contiguous to the District of Columbia, from April 1 to June 30, estimate requirements, 3900 tons of anthracite and 40,000 tons bituminous coal.

Concrete Block Machinery.—Iddins Machinery Co., Central and Jackson St., Knoxville, Tenn.—To correspond with manufacturers of machinery for making concrete blocks.

Conveyor.—See Freight Handling (Docks) Equipment.

Concrete Mixing and Handling Equipment.—Thies & Sherritt, Wewoka, Okla.—To correspond with manufacturers of mixing and handling equipment.

Crane.—See Freight Handling (Docks) Equipment.

Crushers.—See Quarry Equipment.

Dike.—U. S. Engineer Office, 1307 Schaff Bldg., Philadelphia, Pa.—Bids until March 10 to construct pile, timber and stone dike and sluices in Delaware River at Killcock Meadows, N. J. (opposite Delaware City, Del.)

Dredge (Oil Suction).—M. D. Moody, 409 Masonic Temple, Jacksonville, Fla.—To purchase 12, 14 or 18-in. oil suction dredge, oil engine outfit preferred.

Dredging Outfit.—M. D. Moody, 409 Masonic Temple, Jacksonville, Fla.—To purchase dredging outfit with agitator.

Electrical Work.—Louisiana State University, R. L. Himes, Sec. Bldg. Comm., Baton Rouge, La.—Bids until Feb. 29 to furnish and install electric feeders in the tunnel and lighting for the tunnel, plans with C. V. Link, Baton Rouge.

Elevators.—See Quarry Equipment.

Engine.—Mullins Lumber Co., Mullins, S. C.—To purchase an automatic engine, stationary, about 20 to 25 h.p.

Engines.—See Hull Boats and Barge Construction.

Fibre (Chair Bottom).—Georgia Mirror & Plating Co., 309 Albany Ave., Waycross, Ga.—To correspond with manufacturers of fibre material used in making chair bottoms.

Freight Handling (Docks) Equipment.—City Comsn., Tampa, Fla.—Bids until March 11, to furnish following equipment to be used at Municipal docks for handling freight; one gasoline power locomotive, Standard gauge with capacity to handle 2 loaded freight cars; one locomotive crane 15 to 20 ton capacity and one magnet for handling steel, combined if possible; one conveyor or stacker to elevate and pile bags of materials; electric or gasoline trucks, trailers for each; one or more sets of automatic platform scales, capacity 1000 lbs. and 4000 lbs. each; 50 hand trucks; further information address W. D. Hall, Port Engr., Box 2736, Tampa.

Furniture (Church).—C. C. Robbins, Chrmm., Building Committee, First Methodist Church, High Point, N. C.—Estimates and bids on the seating and pulpit furniture for church building, seating capacity of auditorium about 1000.

Furniture (Bank) and Fixtures.—F. F. Scaggs, Trustee, The People's State Bank, Wayne, W. Va.—To purchase inside furniture and fixtures for bank building.

Furniture, etc.—City, W. P. Burden, Sec., Comm. Council, Baton Rouge, La.—Bids until March 4 to furnish and install new wooden furniture, steel counters, banking screen and filing devices in the City Hall; W. T. Nolan, Archt., 213 New Raymond Bldg., Baton Rouge, La.

Generator Set.—L. P. Tobin, Box 132, Bamberg, S. C.—Two 150 h.p. generator sets direct connected to 125 k.v.a. generator, 3-phase, 2300 volts, 60 cycles.

Gravel.—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, La.—Bids until March 20 for gravel to surface 7.92 mi. in Grant Parish, State Project No. 393; also 2 sections in Winn Parish; 7.41 mi. Project 366-B, and 8.35 mi., Project 366-C; plans, etc., on file; J. M. Fourmy, State Highway Engr.

Gravel.—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, La.—Bids until March 18 to furnish gravel to surface following highways: Ouachita Parish, Monroe-Rayville highway, 8412 cu. yd. sand-clay gravel, and 4204 cu. yd. washed gravel or 12,616 cu. yd. sand-clay gravel; Richland Parish, Rayville-Monroe Highway, 2211 cu. yd. washed gravel, and 4424 cu. yd. sand-clay gravel or 6635 cu. yd. sand-clay gravel; West Carroll Parish, Oak Grove-Arkansas Highway, 2507 cu. yd. washed gravel, and 5013 cu. yd. sand-clay gravel or 7520 cu. yd. sand-clay gravel; Richland Parish, Delhi-Oak Grove Highway, 3628 cu. yd. washed gravel, to be delivered at Epps, La.; plans, etc., on file; J. M. Fourmy, State Highway Engr.

Groover (Hand Power).—Texas Tanners Supply Co., Houston, Tex.—To purchase 36 to 48-in. hand power groover, second-hand preferred.

Hoists.—(Steam and Electric)—Mallory Machinery Corp., (Mchy. Dealers) 522 Light St., Baltimore, Md.—To purchase 2 drum and swinger or 3 drum skeleton steam hoists or with A. S. M. E. boilers and 2 drum and swinger or 3 drum electric hoist 25 to 50 h.p. motors.

Hoists (Gasoline).—C. W. Copper, Contracting Engr., Brown, Ala.—To purchase two drum gasoline hoists for handling 2500 lb. pile hammer.

Hospital Equipment.—Wm. Cooksey, V.-P. Gen. Mgr., Baptist National Hospital Assn., Hot Springs National Park, Ark.—Hospital equipment for 150-bed hospital.

Ice Plant.—Town of Madison, Fla.—Details under Construction News—Ice and Cold Storage Plants.

Ice Making Machinery.—Coeburn Chero-Cola Bottling, Inc., Coeburn, Va.—To correspond with manufacturers of ice making machinery, etc.

Levee Construction.—Supvrs. of Ellis County Levee Improvement Dist. No. 3, Waxahatchie, Tex. Details under Construction News—Miscellaneous Construction.

Lighting Fixtures.—Treasury Dept., Supervisors, Architect's Office, Washington, D. C.—Bids until March 10 for exterior lighting fixtures for Federal Buildings.

Locomotive.—D. C. Elphinstone, (Mchy. Dealers) 408 Continental Bldg., Baltimore, Md.—Prices on 18/20 ton 36-in. gauge Porter or Vulcan locomotive.

Locomotive (Gasoline).—See Freight Handling (Docks) Equipment.

Locomotive.—Henry Levis & Co., (Engineers) Commercial Trust Bldg., Philadelphia, Pa.—One 8x12 or 9x14, 36-in. gauge saddle tank locomotive, Vulcan preferred.

Metal Key Holders.—S. C. Drake, 100 2nd St., Macon, Ga.—To purchase metal holders to be used in leather key containers.

Metal Working Tools, etc.—H. E. Williams Products Co., 331 Main St., Carthage, Mo.—Data, prices and catalogs on metal working machine tools, punch presses, etc.

Millwork.—Thies & Sherritt, Wewoka, Okla.—See Building Material.

Miscellaneous Supplies.—Gian Chand Mehra & Co., Lahore, India.—To correspond with manufacturers of the following with view to representation; Lamps; lanterns; glassware; general merchandise; hardware, lubricating oils and greases.

Oil Cloth Machinery.—A. R. McDaniel & Co., Calhoun, Ga.—To purchase machinery and equipment for the manufacture of table oil cloth.

Painting.—Board of Awards, Mayor Howard W. Jackson, Pres., Baltimore, Md.—Bids in duplicate until March 5 at office Fredk. A. Dolfield, City Register, City Hall for interior and exterior painting of Engine Co. No. 31, York Road near Gorsuch Ave.; drawings and specifications at office C. H. Osborne, Inspector of Bldgs., City Hall.

Potato Chip Machinery.—J. W. Hoopes, Denbigh, Va.—Data and machinery for making potato chips.

Paving, etc.—City of Spartanburg, S. C. Details under Construction News—Road and Street Construction.

Paving, etc.—City of Columbus, Ga.—Details under Construction News—Road and Street Construction.

Paving.—Caddo Parish, Shreveport, La.—Details under Construction News—Road and Street Construction.

Paving.—City of Tiptonville, Tenn. Details under Construction News—Road and Street Construction.

Paving.—City of Beaumont, Tex.—Details under Construction News—Road and Street Construction.

Pipe (Black or Galvanized Iron).—United Realty Co., Cocoa, Fla.—To purchase from 6000 to 8000 ft. of 3/4-in. 1-in., 1 1/2-in., 2-in., 4-in. and 6-in. black or galvanized iron pipe, second-hand material preferred.

Pipe.—Joe Ponton, Williamson, W. Va.—Names and addresses manufacturers of reinforced concrete and vitrified pipe.

Pipe Bending Machine.—Texas Tanners Supply Co., Houston, Tex.—To purchase new

or second-hand pipe bending machine, 1-in. and smaller.

Pipe (Cast Iron).—M. D. Moody, 409 Masonic Temple, Jacksonville, Fla.—Prices on cast iron water pipe, assorted sizes.

Pipe and Casing.—The Solow Oil Co., Atlas Bldg., Tulsa, Okla.—To purchase in quantities used casing and line pipe.

Pipe (Dredge).—M. D. Moody, 409 Masonic Temple, Jacksonville, Fla.—Prices on new or second-hand dredge pipe.

Pipe (Galvanized).—M. D. Moody, 409 Masonic Temple, Jacksonville, Fla.—Prices on new or second-hand galvanized pipe, in sizes 1, 1½, 1¾, 2 and 3-inches.

Plumbing Fixtures.—E. B. Barclay, 507 McKevitt Bldg., Norfolk, Va. — To correspond with manufacturers of or dealers in plumbing fixtures.

Portland Cement.—Town of Morganton, N. C., Charles Lane, Mgr.—Bids opened Feb. 28 to furnish Portland cement for proposed street improvements, estimated 7000 to 10,000 bbl.; Warren H. Booker, Engr., Charlotte, N. C.

Press (Hydraulic Wheel).—The Kanawha Equipment Co., (Mchy Dealers), Charleston, W. Va. To purchase 100-ton hydraulic wheel press.

Quarry Equipment.—Wm. Byms, Box 2611, Tampa, Fla.—To purchase quarry or rock crushing equipment, including crushers, screens, elevators, tram road equipment, drills for drilling rock and power for same, also trucks.

Reservoir.—Dist. Commrs., Washington, D. C.—Details under Construction News—Water Works.

Ranges (Gas).—E. B. Barclay, 507 McKevitt Bldg., Norfolk, Va.—To correspond with manufacturers of or dealers in gas ranges.

Road.—Louisiana Highway Comn., Baton Rouge, La., will build 3 roads. Details under Construction News—Road and Street Construction.

Road.—Mitchell County, Colorado, Tex.—Details under Construction News—Bridges, Culverts, Viaducts.

Road.—State Highway Comn., Richmond, Va., will build 10 roads. Details under Construction News—Road and Street Construction.

Road.—State Road Comn., Charleston, and Upshur County Court, Buckhannon, W. Va., Details under Construction News—Road and Street Construction.

Rope (Manila).—Department of Purchases and Supplies, U. S. Shipping Board, Emergency Fleet Corp., Washington, D. C.—Bids until Feb. 29 to furnish such quantities of Manila rope as may be required at the more important Atlantic and Gulf Coast points for period of 6 months; M. W. Bowen, Mgr., Dept. of Purchases.

Road.—Van Zandt County, Canton, Tex.—Details under Construction News—Road and Street Construction.

Saws (Cut-off and Rip).—See Woodworking Machinery.

Scales (Platform).—See Freight Handling (Docks) Equipment.

Scows (Steel Dump).—Panama Canal, A. L. Flint, Gen. Pur. Officer, Washington, D. C.—Bids until March 19 to furnish three 1000 yd. steel dump scows. Blank forms and information (Circular 1591) on application to offices of Panama Canal; Asst. Pur. Agt. at 24 State St., New York; 611 Gravier St., New Orleans, La. and Fort Mason, San Francisco, Cal.

Seating.—See Furniture (Church).

Shears (Squaring).—Texas Tanners Supply Co., Houston, Tex.—To purchase new or second-hand 30 or 36-in. tin shop squaring shears.

Shovel (Steam).—Gastonia Brick Co., Gastonia, N. C. — Good second-hand steam shovel or clay digger for 12 acres clay land.

Spikes (Boat).—Joseph Stolz & Son, Inc., Commerce Ave., Highbridge Station, New York.—Prices f.o.b. cars shipping point on 47 kegs of boat spikes, 5/16-in. x 6-in.

Sewer.—City of Tiptonville, Tenn. Details under Construction News—Road and Street Construction.

Steamboat Supplies.—See Boats Hulls and Barges.

Steel Ship Channels.—Joseph Stolz & Son, Inc., Commerce Ave., Highbridge Station, New York.—Prices f.o.b. cars shipping point on 7 steel ship channels, 10-in. x 27.4-lbs. x 24-ft. long.

Tile (Floor and Roof).—E. B. Barclay, 507 McKevitt Bldg., Norfolk, Va.—To correspond with manufacturers of or dealers in tile for bath rooms, lobby and roofing.

Tires (Automobile and Truck).—State Road Dept., Tallahassee, Fla., H. B. Phillips, Chrmn.—Bids until March 5 to furnish and deliver to any point in state, automobile and truck tires (cord and fabric) together with tubes as needed for the next six months; approximate quantities 100 tires ranging in size from 30 x 3½-in. to 42 x 9-in.

Tram Road Equipment.—See Quarry Equipment.

Trench Excavation.—Board of Awards, F. A. Dolfeld, Register, City Hall, Baltimore, Md.—Bids until March 5 for trench excavation for water department; V. Bernard Siems, Water Engr.

Trucks.—See Freight Handling (Docks) Equipment.

Vault (Bank).—F. F. Scaggs, Trustee, The People's State Bank, Wayne, W. Va.—To purchase vault for bank building.

Trucks.—See Quarry Equipment.

Washers (Steel Cut) Machinery.—Chester M. Goodyear, Greenville, S. C.—To correspond with manufacturers of machinery for making steel cut washers.

Water Meter, etc.—Board of Awards, F. A. Dolfeld, Register, City Hall, Baltimore, Md.—Bids until March 5 to furnish and deliver one 36-in. venturi meter and special register to water department; V. Bernard Siems, Water Engr.

Wheel Barrows.—Thies & Sherritt, We-woka, Okla.—Prices on wheel barrows.

Woodworking Machinery.—Midway Lumber Co., Burlington, N. C.—Prices on woodworking machinery, including flooring machine, cut off saws and rip saws.

Woodworking Machinery.—J. E. Thompson, 622 North 24th St., Birmingham, Ala.—Data and prices on second-hand machinery including, self feed rip saw, one swing saw, trimmer, four side moulding machine 6 or 8-in., double head shaper, spindle boring machine, and one drum sander.

Fla., St. Petersburg—St. Petersburg Bond & Mortgage Co., capital \$200,000, incorporated with Paul F. Skinner, Pres.; R. H. Thomas, Sec.

Ga., Augusta—H. H. Bell & Co., capital \$25,000, incorporated by H. H. Bell, Walter G. Fargo and others.

Ga., Moultrie—Southern National Bank of Colquitt, organized with \$25,000 capital; C. C. Kinks, Correspondent.

Md., Baltimore—Consolidated Building & Loan Assn., Inc., 10 E. Lexington St., capital \$200,000, incorporated by Harry T. Geisendaffer, Geo. L. Jeannert and others.

Md., Baltimore—Monument Square Building & Loan Assn., 308 Equitable Bldg., capital \$500,000, incorporated by Dr. David F. Blatt, Hyman Nowitsch and others.

Md., Baltimore—Metro Building & Loan Assn., 10 South St., capital \$100,000, incorporated by Joseph Sherbow, Joseph Malone and others.

Md., Baltimore—Quality Building & Loan Assn., 1145 E. Baltimore St., capital \$100,000, incorporated by Joseph Weisblatt, Jacob J. Malman and others.

Miss., Kosciusko—Acme Investment Co., capital \$25,000, incorporated by J. H. Cain, O. X. Bower and others.

Mo., Kansas City—Keystone Corp. capital \$600,000, incorporated by H. G. Leevy, R. A. Stout and others.

Mo., Kansas City—Liberty Savings & Loan Assn., capital \$100,000, incorporated by O. D. McCullum, W. W. H. Finley and others.

Mo., Mexico—W. H. Scott Abstract Co., capital \$10,000, incorporated by W. H. Scott, Wm. Daniel and others.

Mo., St. Louis—American Exchange National Bank of St. Louis, capital \$200,000; Edmond Koeln, Correspondent, Kingshighway & Gravois Ave.

N. C., Andrews—Andrews Building & Loan Assn., Holland & Watkins Bldg., capital \$60,000, incorporated with G. B. Hoblitzell, Pres.; J. Weimar Jones, Sec.

N. C., Mooresville—First Securities Co., capital \$25,000, incorporated with C. P. McNeely, Pres.; D. M. Creswell, Sec.-Treas.

N. C., Raleigh—Carolina Mortgage & Indemnity Corporation, capital \$2,000,000; incorporated with D. A. Houston, Pres.

N. C., Salisbury—J. E. Younce & Co., capital \$400,000, incorporated by J. E. Jounce, of Spencer, N. C.; James P. Matton, Salisbury.

N. C., West Jefferson—Peoples Bank & Trust Co., capital \$50,000, incorporated by H. C. Tucker, Geo. A. Hopkins and others.

Okla., Stuart—First State Bank, capital \$10,000, incorporated by A. N. Griffey, J. F. Pool and others.

Okla., Woodward—Farmers Loan & Investment Co., organized with W. S. Murray, Pres.; Alex. Geismar, Sec.-Treas.

S. C., Columbia—Southern Credit Co., capital \$100,000, incorporated with Ivey M. Mauldin, Pres.; O. P. Loyal, Sec.

Tex., Cameron—H. M. Hofey and associates contemplate establishing State Bank.

Tex., Chillicothe—First National Bank of Chillicothe, capital \$25,000; conversion of Guaranty State Bank, Chillicothe.

Tex., Dallas—Commercial Finance Corp., capital \$40,000, incorporated by W. G. Crush, W. R. Faught and others.

Tex., Dallas—Republic Trust & Savings Bank of Dallas, capital and surplus \$550,000, organized with Wirt Davis, Pres.; Percy Davis, Sec.

Tex., Robstown—First National Bank of Robstown, capital \$100,000; W. A. Cannon, Correspondent, Robstown.

Financial News

New Financial Corporations

D. C., Washington—Wardman Mortgage & Discount Corp., 1430 K St. N. W., organized with Harry Wardman, Pres.; Hubbert R. Quinter, Sec.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned

Va., Hampton—Tidewater Home & Savings Assn., 98 E. Queen St., capital \$200,000, incorporated with S. C. Rees, Pres.; Harry F. Marrow, Sec., Hampton.

W. Va., Charleston—Sterling Investment Co., capital \$500,000, incorporated by C. A. French, F. M. Exline, Geo. E. Thomas, and others.

New Securities

Ala., Wedowee—Road—Randolph County sold \$35,000 bonds to Ward-Sterne Co., Birmingham, Ala., at par and accrued interest plus bonus of \$410.

D. C., Washington—Water and Sewer—Washington Suburban Sanitary Dist. of Maryland sold \$500,000, 4½% bonds to Equitable Trust Co., Calvert & Fayette Sts., Baltimore, Md. and associates, for 99% and interest.

Fla., Bushnell—Road—Sumter County voted \$650,000 bonds. Address County Commrs. (Lately noted to vote.)

Fla., Fort Meade—Street Paving—City contemplates voting on \$23,000 bonds. Address The Mayor.

Fla., Frostproof—Sidewalk—Guy P. Ruhl, Town Clk., will receive bids until March 3 for \$8000 bonds.

Fla., Live Oak—Street Paving, Water, Sewer, Building, etc.—City will vote March 25 on \$168,500 bonds. Address The Mayor.

Fla., Miami Beach Sta., Miami—Municipal Improvements—City voted \$307,000 bonds. Address The Mayor. (Lately noted to vote.)

Fla., Orlando—Fire Station—City, J. A. Stinson, Clk., defeated \$20,000 bonds. (Lately noted to vote Feb. 12.)

Fla., St. Petersburg—School—School Bd., Capt. Geo. M. Lynch, Supt. will call election March 17 to vote on \$225,000 bonds. (Lately noted contemplated.)

Fla., Sebring—Paving—Highlands County Commrs., will receive bids until March 10 for \$75,000, 6% bonds; Wm. King, Chmn., of Board.

Fla., Tampa—Municipal Improvements—City, Perry G. Wall, Mayor, plans voting Apr. 15 on \$2,840,000 bonds. (Lately noted postponed bond election.)

Fla., West Palm Beach—Street Paving—City contemplates voting on \$25,000 bonds. Address The Mayor.

Ga., Albany—School—Dougherty County Board of Commrs., A. J. Lippitt, Chmn., will receive bids until March 1 for \$100,000, 5% bonds.

Ga., Albany—School and Drainage—City, J. W. Armstrong, Clk., will receive bids until March 1 for \$200,000, 5% bonds.

Ga., Camilla—Road—Mitchell County sold \$100,000, 5% bonds to Lowry Bank & Trust Co., of Georgia, Atlanta, at \$101.97 with accrued interest.

La., Alexandria—School—J. W. Bolton, Chmn., rejected bids for \$1,250,000 bonds. (Lately noted bids until Feb. 20.)

La., Alexander—School—Rapides Parish School Board rejected bids for \$1,250,000 bonds; J. W. Avery, Sec.-Treas. (Lately noted bonds until Feb. 20.)

Md., Lonaconing—Street Improvement—Town contemplates \$25,000 bond issue. Address The Mayor.

Miss., Meridian—Water-Works, and Sewers

—City sold to Meridian Finance Corp., \$91,750 Sewer and \$30,000 water-works improvement bonds; both 5½% interest.

Miss., Tchula—School—Board of Supvrs. Lexington, Miss., will receive bids until March 3 for \$40,000, 6% Tchula Consolidated School bonds. (Lately noted voted bonds.)

Mo., St. Joseph—Refunding—City will receive bids until March 12 for \$150,000 bonds. Address The Mayor.

N. C., Asheboro—Water and Sewer—Board of Commrs., sold \$105,000, 5% bonds to First National Bank, Bank of Randolph and Asheboro Bank & Trust Co., jointly at par.

N. C., Bessemer City—Sewer, Water, Municipal Building—Town, M. L. Rhyne, Sec., contemplates voting about March 18 on \$40,000 bonds, including \$15,000 for sewer; \$15,000 for water; \$10,000 for municipal building.

N. C., Boiling Springs—Indebtedness, Memorial Building, etc.—Trustees Boiling Springs High School, J. H. Quinn, Chmn. of Board, plan selling \$40,000, 6%, \$100 denominational bonds.

N. C., Greensboro—Street Improvement, Water, Sewer, Municipal Building—City, E. G. Sherrill, City Clk., sold \$1,400,000, 5% bonds to A. B. Leach & Co. New York, and associates, at premium of \$4313.

N. C., Murphy—Road—Cherokee County sold \$75,000, 6% bonds to Walter, Woody & Helmerding, Cincinnati, at par.

N. C., Waxhaw—Light and Power—Town, H. B. Adams, Mayor, will receive bids until March 14 for \$25,000, 6% bonds.

N. C., Waynesville—Haywood County, C. F. Kirkpatrick, Register of Deeds, will receive bids until March 17 for \$257,000 bonds.

Okla., Apperson—Water and Sewer—City recalled \$130,000 bond election. Address The Mayor. (Lately noted to vote Feb. 15.)

Okla., Chickasha—Road and Bridge—Grady County will vote April 4 on \$1,000,000 bonds. Address County Commrs. (Lately noted to vote March 4.)

Okla., Ponca City—School—Board of Education will receive bids until March 6 for \$81,000 Garfield school bonds. Address Pres. of Board.

S. C., Bennettsville—Bridge—Marlboro Bridge Comm., will receive bids until March 11, at office of E. W. Evans, for \$15,000, 6% Marlboro Dist. bonds; J. W. LeGrand, Chmn.

S. C., Bennettsville—Paving—City, J. J. Evans, Mayor, sold \$80,000, 6% bonds to A. C. Heywood & Co., Columbia, S. C., at 99.26 with accrued interest.

S. C., McColl—Street Paving—Town, D. L. McLaurin, Mayor, will receive bids about April 1 for \$50,000, 5½%, \$500 denom. bonds. (Lately noted voted bonds.)

S. C., Spartanburg—Street Improvement—City will vote March 18 on \$250,000 bonds. Address The Mayor.

Tenn., Dandridge—Road—Jefferson County sold \$75,000 bonds to Caldwell & Co., Nashville, at premium of \$375.

Tenn., Jackson—Municipal Improvements—City, Lawrence Taylor, Mayor, will vote March 25 on \$890,000 bonds, including \$500,000 for street improvements; \$150,000, water plant extension; \$125,000, city hall; \$115,000, enlarging schools.

Tex., Alice—Road—Jim Wells County, R. R. Mullen, County Judge, rejected bids for \$100,000 bonds. (Lately noted bids until Feb. 15.)

Tex., Brady—Water-Works—City contemplates voting soon on \$100,000 bonds. Address The Mayor.

Tex., Centerville—Road—Leon County, W.

D. Lacey, County Judge, will vote soon on \$200,000 bonds.

Tex., Conroe—Sewer—City contemplates voting soon on \$40,000 bonds. F. S. Von Zuben, Const. Engr., Fort Worth, Tex.

Tex., Cooper—School—Copper Independent School Dist., will receive bids until March 4 for \$85,000 bonds; Dr. C. C. Taylor, Pres. of Board. (Lately noted to vote on bonds.)

Tex., Beaumont—School—City will vote March 18 on \$150,000 bonds. Address The Mayor.

Tex., Denison—Street Improvement—City plans selling \$75,000 bonds. Address The Mayor.

Tex., Floydada—Sewer—City will vote March 18 on \$50,000 bonds. Address The Mayor.

Tex., Georgetown—Road—Williamson County Road Dist. No. 9 will vote March 12 on \$20,000 bonds; R. A. Nichols, County Engr.; F. D. Love, County Judge.

Tex., Highland Park Sta., Dallas—School—Highland Park School Board sold \$100,000 bonds to Breg, Garrett & Co., Dallas, Tex.

Tex., Hillsboro—Road—Hill County, Malone Dist., voted \$150,000 bonds; Penelope Dist., defeated \$200,000 bonds. (Lately noted to vote.)

Tex., Huntsville—Road, etc.—Walker County will vote March 29 on \$1,500,000 bonds. Address County Commrs.

Tex., Italy—Street Improvements—City voted bonds. Address The Mayor.

Tex., Kingsville—School—School Board of Kingsville Independent School Dist., will call an election soon to vote on \$40,000 bonds. Address Pres. of Board.

Tex., Kleburg—School—Board of Education will call election March 15 to vote on \$13,000 bonds. Address Pres. of Board.

Tex., Knox City—School—Knox City Independent School Dist., W. W. Hyde, Sec. Board of Trustees will call election on March 8 to vote on \$40,000 bonds.

Tex., Mabank—School—City voted \$32,000 bonds. Address Chm. of School Trustees.

Tex., Luling—School—Board of Trustees, Luling Independent School Dist. will call election March 18 to vote on \$100,000 bonds. Address Pres. of Board.

Tex., Plano—School—Plano Independent School Dist., T. C. Harrington, Sec. of Board, will receive bids until March 10 for \$65,000, 5½% bonds.

Tex., Quanah—Road—Hardeman County Commrs. reported to have sold to Brown-Crummer Co., Omaha, Neb. \$200,000 bonds in Dist. No. 3; \$100,000 bonds in Dist. No. 4; \$175,000 bonds in Dist. No. 5.

Tex., Seymour—Road—Baylor County will vote March 15 on \$500,000 bonds; Ernest Tibbetts, County Judge. (Lately noted.)

Tex., Sinton—Road—San Patricio County voted \$25,000 bonds. Address County Commissioners.

Tex., Sterling City—Commerce Trust Co., Kansas City, Mo., purchased \$50,000, 5% Sterling City Independent School bonds.

Tex., Vernon—Road—Wilbarger County will vote March 22 on \$150,000 bonds. Address County Commrs.

Va., Norton—Detention House—Wise County Commrs., sold \$100,000 bonds to Roth, Weil & Irvine, Cincinnati, Ohio.

Va., Portsmouth—Road and Bridge Improvement—Norfolk County, C. Taylor Gwathmey, Clk., will receive bids until March 25 for \$220,000, 5% bonds.

Va., Staunton—Water—City, W. F. Day, Mgr., will receive bids until about May 15 for \$700,000, 5% bonds.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned

Va., Staunton—Water—City, W. F. Day, Mgr., voted \$700,000 5% bonds. (Lately noted to vote.)

W. Va., Clarksburg—Courthouse—Harrison County Court plans voting May 27 on \$1,000,000 bonds.

W. Va., Hamlin—Sewer—City will vote soon on \$12,000 bonds. Address The Mayor.

W. Va., Huntington—School—City sold \$200,000 bonds to C. W. McNear & Co., Chicago, Ill. at \$356.75.

W. Va., Point Pleasant—Sewer—City plans voting on bonds. Address The Mayor.

Financial Notes

Canal-Commercial Trust & Savings Bank, and Citizens' Bank & Trust Co., New Orleans, La., merged, involving combined resources of approximately \$90,000,000.

Clayton Investment Co., of Houston, Houston, Tex., changed name to Clayton Investment Co.; increased capital from \$100,000 to \$200,000.

Georgia State Bank, Hawkinsville, Ga., absorbed First National Bank of Hawkinsville; J. A. Frazier, former cashier of First National Bank, will be Asst. Cashier of merged banks.

Hugo National Bank, Hugo, Okla., absorbed First National Bank of Hugo.

Planters Bank of Wilson, Wilson N. C., consolidated with Bank of Black Creek, Black Creek, N. C.; will conduct business in future at both places under name of Planters Bank.

Security Savings & Commercial Bank, Washington, D. C., absorbed American Commercial & Savings Bank at 7th and G Sts. Citizens Bank, Philadelphia, Miss., increased capital from \$50,000 to \$60,000.

First National Bank and People's Bank, Harrisville, W. Va., have merged with combined capital of \$120,000.

Norfolk Home Building & Loan Assn., Inc., Norfolk, Va., increased capital from \$300,000 to \$1,000,000.

Trade Literature

A Fine Book About Boilers.

The Kidwell Boiler Co., Milwaukee, Wis., manufacturers of the Kidwell two-flow ring circuit boilers, stacks, breechings and boiler appurtenances, have issued an unusually fine and large book of 268 pages, giving a most comprehensive description of their products, with illustrations. It presents a clear explanation of principles underlying correct boiler design and operation, their application to boiler analysis and how they are correctly applied in the design of these boilers. There is also other information which, it is remarked, is valuable to those who wish to generate more steam for less money. The book is by Edgar Kidwell, M.E., Ph. D., general manager, who has introduced it with an adequate preface and a chapter stating the reason for, the purpose, and the plan of the book. The work is dedicated "to the honor and memory of Goldsworthy Gurney, of Cornwall, a pioneer investigator in the generation of steam, who through divine inspiration of genius, realized more clearly than any other man of his time or since, the necessity and effect of rapid water circulation in boilers, and who nearly a century ago discovered the only adequate method of producing it, and then gave to the world

the principle of ring flow circulation," etc. The book is printed upon heavy, calendered paper in the highest style of the printer's art. It is copyrighted.

A Very Fine Calendar.

A very handsome and artistic calendar, beginning with March 1924 has been issued by the Heine Boiler Company, of St. Louis. It is printed in rich colors and at the top is an emblematic picture of the sun,

inscribed "Helios." Accompanying the calendar is a description of the meaning of the word Helios which was chosen as the emblem of the company, and which is a condensation of the preface written by Col. E. D. Meier, founder of the company for the first edition of the book "Helios" a treatise on steam boiler engineering, the first edition of which was issued by the company in 1893. The book is now in its 27th edition.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Change of Location.

Luke Seawell, Atlanta, manufacturers representative for hardware and building specialties, metal sash, fire doors, architectural terra cotta, etc., has removed from his former location to 420 Brown Building. His new office is commodious and well situated; he reports very good business.

Iron Works to Be Sold at Auction.

The auction sale of the Groton Iron Works, Groton, Conn., including thirty-four acres of water front property, wharves, shipways, warehouses and other buildings, locomotives, cars, locomotive cranes, traveling and tower cranes, electric motors, engine lathes, compressors, machinery, etc., is to take place on the premises on Tuesday, March 18 at 2 P. M. according to an announcement which appears elsewhere in this issue. Further particulars will be found in the advertisement. Catalogues and detailed information may be obtained from the auctioneers, Gerth's Realty Experts, 505 Fifth Ave., New York City.

Motor Car Plant to be Sold.

The plant of the Fox Motor Car Co., at Seventh St. and Grange Ave., Philadelphia, Pa., together with good will, patents, service rights, machinery, equipment, etc., is to be sold at auction at 10 A. M. Monday, March 24, under a court order. The plant is near Tabor Station on the Reading Railroad. There is a factory building three stories high with basement, and of brick, concrete and glass construction, for the manufacture of the Fox air-cooled car, this structure being 60 by 400 feet in dimensions. It stands on a lot 378 by 537 feet with frontage on two streets. Details as to the character of the machinery, equipment, materials, etc., will be found in the advertisement. Samuel T. Freeman & Co., 1519-21 Chestnut St., Philadelphia, are the auctioneers, from whom complete catalogs may be obtained.

Three Sunken Ships to be Sold.

The United States Navy Department will hold a unique auction sale at the Washington Navy Yard on March 19 when the hulks of three famous battleships will be disposed of to the highest bidders. These include the Indiana, the San Marcos (formerly Texas), and the Alabama. These hulks are lying in Tangier Sound, Chesapeake Bay, about 60 miles from Old Point, Va., and they were the subjects of experimental attacks by army aviators and navy ships. Their decks are still well above the waves, as they were sunk in shallow waters, and it is stated, they can be scrapped where they are. Catalogs show pictures and give particulars, but in addition to this the Department arranged for a special trip to the ships so that all intending bidders could see them.

Another Patent on Moore Dry Kilns.

The Moore Dry Kiln Company of Jacksonville, Fla., and Portland, Ore., was granted another patent on January 22, this relating to improvement in the ventilation which is located on the roof of the kiln, which, it is stated, is the simplest and most direct form. The ventilators are so arranged that they relieve the excess moisture and let out a minimum of steam heat. C. J. Williams, Jr., is president of the company.

(Continued on page 128)

For the Man Who Buys Best

Thomas' Register is a volume of 4500 pages, 9x12—it instantly furnishes a complete list of the American manufacturers for any article or kind of article. More than 70,000 classifications.

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DAYTON
LOUISVILLE

DETROIT
GRAND RAPIDS
KALAMAZOO
PITTSBURGH
WHEELING
ERIE
CHICAGO
MILWAUKEE

MINNEAPOLIS
ST. PAUL
DAVENPORT
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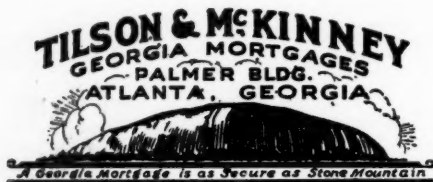
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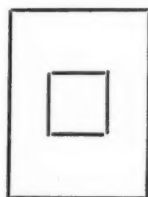
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**Georgia
Railway
and
Power
Company**

(Continued from page 124)

An Impressive Statement of Progress.

The annual statement of the Life Insurance Company of Virginia, Richmond, shows as of December 31, 1923, total admitted assets of nearly \$37,000,000 including bonds and mortgage loans on real estate, more than \$29,500,000. The reserve on policies in force is nearly \$30,000,000 and total liabilities \$32,373,207. The surplus of assets over liabilities is more than \$4,500,000. Gross income during the year was more than \$10,800,000 an increase of more than \$1,300,000 as compared with 1922. The increase in assets was over \$4,200,000, increase in insurance reserve over \$3,300,000. Insurance in force is over \$255,000,000 an increase of more than \$24,800,000. Since 1918 the insurance in force has increased more than \$100,000,000. Full particulars will be found in the statement which appears elsewhere in this issue.

Two Appointments of Managers

The H. H. Robertson Company, manufacturers of Robertson process asbestos protected metal, skylights, ventilators, mineral rubber and special asphalts, has appointed James S. Ervin, formerly in charge of the sale of mineral rubber and special asphalts, as manager of sales, with headquarters at Pittsburgh, Pa., to succeed C. D. Mercer, who has resigned from the company. J. F. Williams has been appointed a district manager with headquarters at Baltimore, Md., to succeed the late O. O. Robinson.

Sale of Six Large Cotton Mills

According to a formal announcement which appears elsewhere in this issue the cotton manufacturing plants of the Manhasset Manufacturing Company at Putnam, Conn., and

Taunton, Mass., respectively, will be disposed of by auction at a receivership sale. The plant at Putnam will be sold on March 18, 19, 20 and 21, beginning at 10 A. M. each day. It includes four large brick mill buildings and other structures connected therewith, together with the ground upon which they stand, besides sixty-five tenement houses, thirty building lots and 2500 lots of textile machinery. The Taunton plant will be sold similarly on March 24 and 25. It includes two large brick mill buildings with related structures and 1600 lots of textile machinery, etc. Full details will be found in the advertisement. A complete catalog may be obtained from the auctioneers, G. L. & H. J. Gross, 170 Westminster St., Providence, R. I.

New Power Catalog.

The T. L. Smith Company, Milwaukee, Wis., is distributing its 1924 paver catalog which contains complete descriptions of the Smith paver models and their outstanding features, together with many half and full-page illustrations of these machines in action. The catalog is especially attractive; it is printed in three colors throughout and it has an extra strong binding.

Offices to be Improved and Enlarged.

The Industrial Management Corporation, J. A. Hill, president, 405 St. Paul Place, Baltimore, Md., has bought the property that it occupies and intends modernizing the building, and will also erect an addition in the rear. This structure was an old residence which at the time of the conflagration of 1904, twenty years ago, was taken for temporary offices, and it has ever since been headquarters for the consulting engineering firm to which this corporation became successor. At the recent annual meeting the directorate was strengthened by electing as

chairman, Robert W. Schuette, 353 Fifth Ave., New York, who will represent the organization in that city. Service is given as to industrial engineering, and also concerning chemical, metallurgical, mining, hydraulic, structural, civil, mechanical, electrical and architectural engineering problems.

Appointment of Eastern Manager.

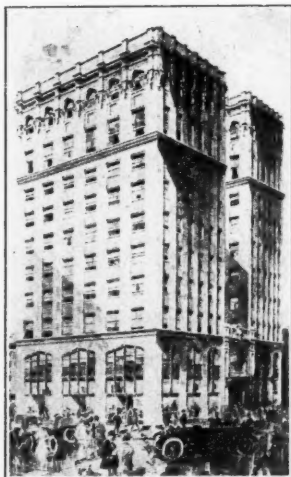
The Vanadium Alloys Steel Co. has appointed J. H. Roberts to be eastern manager of sales with offices at 143 Liberty St., New York City. Mr. Roberts, who until recently was vice-president of the Atlas Steel Corporation, has had wide experience in the executive, manufacturing and metallurgical departments of the tool and special alloy steel industry. The headquarters of the Vanadium Alloys Steel Co. are at Latrobe, Pa.

No Change of Personnel.

There has not been any change in the personnel of either company, it is announced, by the recent consolidation of the Pennsylvania Tank Car Company with the Pennsylvania Car Company, of Sharon, Pa., according to a card issued by the latter. Company affiliations also remain unchanged. Plants are at Sharon, Pa.; Kansas City, Kans.; and Beaumont, Tex., offering complete car building and repair facilities.

Purchase of Bridge Plant.

The J. E. Moss Iron Works, of Wheeling, W. Va., which purchased on February 1 the plant, merchandise and good will of the Riverside Bridge Co., of Martin's Ferry, O., has announced that both plants will be conducted as the J. E. Moss Iron Works, maintaining each with its organization practically intact in order to better serve customers. Matters connected with the business of the Riverside Bridge Co. before Feb. 1 will be handled by the Moss Works.

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Life Insurance Company of Virginia

HOME OFFICE: RICHMOND, VIRGINIA
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Financial Condition December 31, 1923

ASSETS:

Bonds and Mortgage Loans on Real Estate...	\$29,670,958 70
Railroad and Street Railway Bonds.....	700,747 90
United States Liberty Bonds.....	1,023,097 44
State Bonds	5,118 50
Municipal Bonds	25,667 40
Miscellaneous Bonds	215,855 90
Real Estate	928,589 05
Bank Stocks	30,375 00
Loans on Collateral.....	33,000 00
Loans on Company's Policies.....	1,730,435 82
Cash in Banks and Trust Companies on Interest	722,115 20
Cash in Offices and in Banks not on Interest...	40,624 35
Interest and Rents Due and Accrued.....	686,184 14
Net Uncollected and Deferred Premiums and Premium Notes and all Other Assets.....	1,103,844 35
Total Admitted Assets.....	\$36,916,613 75

LIABILITIES:

Reserve on Policies in Force as Computed by the Actuary of the Company.....	\$29,925,446 00
All other Liabilities.....	2,447,761 24
Total Liabilities	\$32,373,207 24
Capital Stock	\$2,000,000 00
Surplus	2,543,406 51
Surplus of Assets over Liabilities.....	4,543,406 51
Total	\$36,916,613 75

We have examined the books and records of the LIFE INSURANCE COMPANY OF VIRGINIA for the year ending December 31, 1923, and have verified therefrom the above Statement of Assets and Liabilities at the close of business at the Home Office as of that date.

We have examined and verified the Bonds and Mortgage Loans on Real Estate, Collateral and Policy Loans, and Railroad, United States, State, Municipal and other Bonds, Stocks and all other investments owned by the Company or held as Collateral, and have proved that all of the Bonds and Stocks are carried at their market value on December 31, 1923, and we have also proved that the Loans on Collateral are fully secured. We have counted the Cash on hand, and have verified the balances deposited with Banks and Trust Companies.

The Reserve on Policies in Force and other Actuarial Liabilities are certified by the Actuary of the Company. We have satisfied ourselves that all other Liabilities are duly provided for, and we certify that the above Statement of Assets and Liabilities correctly sets forth the true financial condition of the Company on December 31, 1923.

Richmond, Va., January 23, 1924.

H. B. BOUDAR & SON,
Certified Public Accountants.

Statement of Operations During 1923

GROSS INCOME	\$ 10,802,249 09
INCREASE IN GROSS INCOME.....	\$ 1,300,339 56
INCREASE IN ASSETS	\$ 4,282,680 70
INCREASE IN INSURANCE RESERVE.....	\$ 3,351,845 00
SURPLUS	\$ 2,543,406 51
INSURANCE IN FORCE.....	\$255,168,568 00
INCREASE IN INSURANCE IN FORCE.....	\$ 24,846,405 00
TOTAL NUMBER OF POLICIES IN FORCE.....	1,090,029
INCREASE IN NUMBER OF POLICIES IN FORCE.....	74,092
DEATH CLAIMS, ETC., PAID TO POLICYHOLDERS.....	\$ 2,696,034 43

Total Payments to Policyholders Since Organization, \$32,747,895.35

Growth in Five-Year Periods

Year	Gross Income for the Year	Assets at End of Year	No. of Policies in Force at End of Year	Outstanding Insurance at End of Year	Year
1903	\$ 1,570,359.51	\$ 1,565,414.33	338,906	\$ 39,717,431.00	1903
1908	2,650,011.46	4,444,711.62	492,191	63,309,202.00	1908
1913	3,842,070.34	9,746,273.87	637,973	94,688,092.00	1913
1918	6,267,654.51	18,362,862.75	828,903	149,170,320.00	1918
1923	10,802,249.09	36,916,613.75	1,090,029	255,168,568.00	1923

JOHN G. WALKER, *President*

THE ANNUAL STATEMENT

The accompanying statement is a striking picture of the financial strength of the Life Insurance Company of Virginia, at the close of business on December 31, 1923.

The Company's assets, almost thirty-seven million dollars, speak for themselves. It is unnecessary to say anything of the desirability of such investments as first mortgages on real estate, and high-grade bonds. Everyone realizes that such holdings are prime security. The policy loans are, of course, secured by the cash value of the policies themselves. No security could be better.

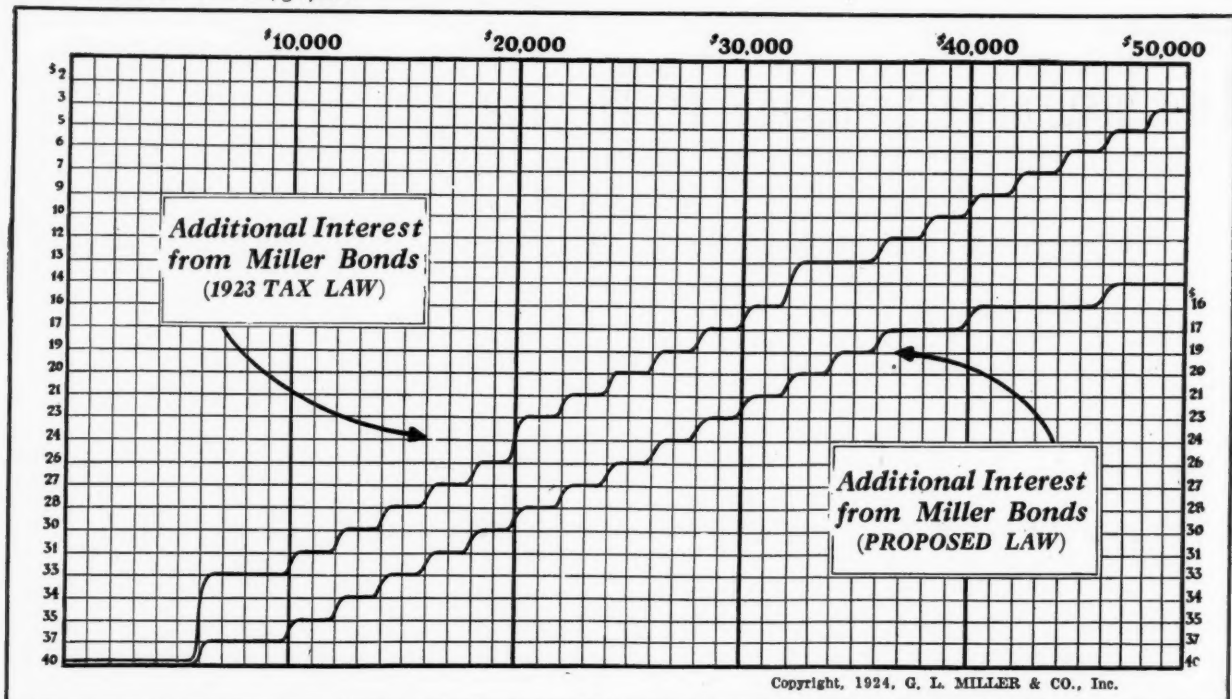
The principal item of liability is the reserve on the policies, amounting to \$29,925,446.00. This is a fund accumulated from year to year out of the premium payments, and invested in the highest grade of securities, as shown under the "Assets" side of the statement, and is used to pay the policies as they mature.

The appended schedule of "Growth in Five-Year Periods" from 1903 through 1923 testifies eloquently both to the confidence that the insuring public has in the Life Insurance Company of Virginia and to the management of the Company. During these twenty years, the Company has grown nearly seven times in insurance in force, while its assets have grown twenty-four times, and its income over seven times.

Since its organization fifty-three years ago, the Company has paid to beneficiaries and policyholders over thirty-two million dollars in death claims and matured endowments.

The Company now has over a million policies in force. It is a great fortress, protecting hundreds of thousands of beneficiaries scattered over the states in which it operates.

TOTAL TAXABLE INCOME
BY THOUSANDS UP TO \$50,000



This chart is printed in full in the tax circular we have just prepared. It shows the additional investment income which \$2000 in 7% Miller Bonds yields over 5% tax-exempt securities.

How Tax Reduction Will Affect Investment Income

*Facts for every investor
having an income up to \$100,000 a year*

We have prepared for investors a new circular describing the effect of tax reduction on investment income. The advantage of 7% Miller Bonds over tax-free bonds is shown

in detail, both under the present law and the proposed law. Information is included on Inheritance Taxes, state and federal. Mail the coupon today for Tax Circular. No obligation.

G. L. MILLER & COMPANY, INC.,
2702 Hurt Building
Atlanta, Ga.

Please send me, without obligation, Tax Circular, and information about Miller First Mortgage Bond issues paying up to 7%.

Name
Address
City and State.....

G.L. MILLER & CO.
INCORPORATED

2702 Hurt Building, Atlanta, Ga.

NEW YORK

PHILADELPHIA

PITTSBURGH

ST. LOUIS

BUFFALO

MEMPHIS

KNOXVILLE

NO INVESTOR EVER LOST A DOLLAR IN MILLER BONDS

"THE ATMOSPHERE OF YOUR BANK"

said a customer recently, "is not cold, but radiates cheerfulness and helpfulness."

That is our aim. We are properly conservative, but we recognize the obligation resting upon all bankers to help meet deserving business requirements.

We invite correspondence.

BALTIMORE COMMERCIAL BANK

GWYNN CROWTHER, President

Pratt Street and Market Place, Baltimore, Md.

Capital and Surplus \$1,000,000.00

Member Federal Reserve System

IN RICHMOND VIRGINIA

The First National Bank offers complete facilities for quick collections in this territory.

FIRST NATIONAL BANK

JOHN M. MILLER, JR., President

Resources over \$30,000,000
Capital and Surplus \$4,000,000

MARYLAND TRUST COMPANY

BALTIMORE

Transacts a General Trust and Banking Business

Correspondence and interviews invited

CAPITAL,

\$1,000,000

F. WM. KRAFT

LAWYER

Specialist in Examination of

Municipal and Corporation Bonds

and Preparation of Proceedings relating thereto

517-520 Harris Trust Bldg.
111 West Monroe St.

CHICAGO, ILL.

Municipal Bonds

Inquiries invited from municipalities and contractors. We buy city, county, district, school, road, lighting, water works and other municipal issues.

A. C. ALLYN AND COMPANY

71 W. Monroe St., Chicago, Ill.
New York Milwaukee Minneapolis Boston

REAL ESTATE MORTGAGE BONDS

We are interested in the purchase of first mortgage bond issues covering business property, hotels, apartment houses, etc., in amounts of \$50,000 and upwards. Entire issues city, county and district bonds purchased.

MARX AND CO.

Brown-Marx Bldg.

Birmingham, Alabama

We Buy Bonds

City, County, School and Road, from Municipalities and Contractors

WRITE

THE PROVIDENT SAVINGS BANK & TRUST CO.
CINCINNATI OHIO

8% FLORIDA Real Estate First Mortgage Bonds

Never a default in interest or principal on any issue we have handled. Denominations: \$100, \$500, and \$1000. Explanatory Booklet "M" mailed free, upon request.

SECURITIES SALES COMPANY

OF FLORIDA

Member Florida Bankers Association

119 WEST FORSYTH STREET
JACKSONVILLE FLORIDA

ATTENTION CONTRACTORS AND MUNICIPALITIES

We Buy

MUNICIPAL BONDS

HERBERT C. HELLER & COMPANY

60 Wall Street
New York, N. Y.

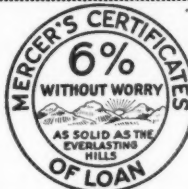
Union Trust Building
Cincinnati, Ohio

HAVE YOU BONDS FOR SALE?

WE BUY ALL CLASSES OF MUNICIPAL BONDS, INCLUDING CITY, COUNTY, SCHOOL, PAVING, ROAD AND DRAINAGE

The Hanchett Bond Co. Inc.

39 SOUTH LA SALLE ST., CHICAGO

**A SECURITY OF CHARACTER**

There are securities and securities—but here is one 22 years old—absolutely safe—capital always available without loss. \$100.00 and up. References—any Bank and Trust Company in Savannah, Ga. Send for Booklet.

G. A. MERCER COMPANY
Investment Bankers Savannah, Ga.

JOHN NUVEEN & CO.

First National Bank Building

CHICAGO

We purchase SCHOOL, COUNTY and MUNICIPAL BONDS. Southern Municipal Bonds a Specialty.

Write us if you have bonds for sale

TODD & McCOLLOUGH

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AMERICAN SOCIETY OF CERTIFIED PUBLIC ACCOUNTANTS

Auditing, Cost and Accounting Systems, and Federal Tax Service

No. 323 South Tryon St.

Charlotte, N. C.

WE BUY MUNICIPAL BONDS

We are interested in the purchase of Southern Municipals including road, school, county, drainage and levee bonds.

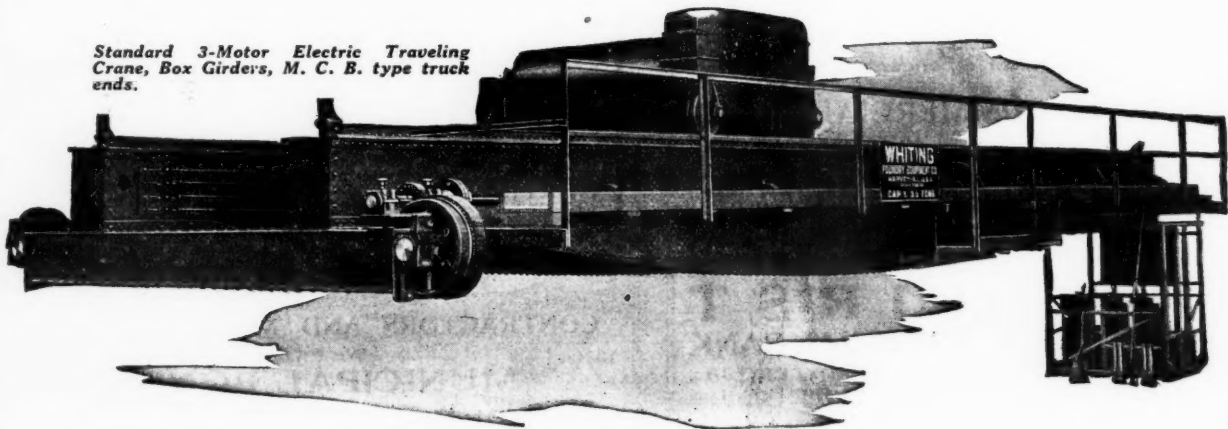
M. W. ELKINS & CO.

Southern Trust Bldg.

Little Rock, Ark.

Reduce 1924 Handling Costs by Using Whiting Cranes

*Standard 3-Motor Electric Traveling
Crane, Box Girders, M. C. B. type truck
ends.*



A Type for Every Service

**Electric and Hand-Power Travelers; Bucket-Handling,
Gantry, Jib, Pillar and Bracket Cranes**

Prominent industrial engineers say the Electric Traveling Crane excels all other material-handling equipment in labor saving possibilities.

Countless industries depend on Whiting Electric Traveling Cranes to lower their handling costs and speed up production because our designs are time-tried and constructed for service.

Let us go over your handling problems.

Catalog and specifications on request.

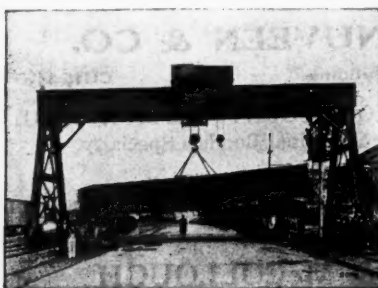


Bucket Crane handling cement clinker.

WHITING CORPORATION

(Formerly Whiting Foundry Equipment Co.)

15645 Lathrop Ave., HARVEY, ILL. (Chicago Suburb)



Gantry Crane in freight yard.



Electric Jib Crane in steel foundry.



Electric Pillar Crane in Navy Yard.

GRINDLE PULVERIZED COAL SYSTEMS

WHITING

**CRANES
FOUNDRY EQUIPMENT
RAILWAY SPECIALTIES**



PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close March 1, 1924.

U. S. Engineer Office, Florence, Alabama. SEALED PROPOSALS will be received here until 11 A. M., March 1, 1924, and then opened, for furnishing and delivering four hydraulic turbines each of thirty-five thousand (35,000) horsepower, with governors. Further information on application.

Bids close March 10, 1924.

TREASURY DEPARTMENT. Supervising Architect's Office, Washington, D. C., February 21, 1924.—SEALED PROPOSALS will be opened in this office at 2 P. M., March 10th, 1924, for exterior lighting fixtures for Federal Buildings in accordance with drawings and specifications, copies of which may be had at this office. JAS. A. WETMORE, Acting Supervising Architect.

Bids close March 18, 1924.

TREASURY DEPARTMENT. Office of the Supervising Architect, Washington, D. C., February 18, 1924.—SEALED PROPOSALS will be opened in this office at 3 P. M., March 18, 1924, for the construction, including mechanical equipment, of a one-story concrete and brick non-fireproof Post Office building, approximately 60 by 95 feet, at Dubois, Pa. Drawings and specifications may be obtained from the Custodian of the site at Dubois, Pa., or at this office in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

Bids close March 14, 1924.

PROPOSALS FOR CENTRIFUGAL SAND PUMP AND ENGINE.—Office, Mississippi River Commission, 1st and 2nd Districts, Room 1006 McCall Building, Memphis, Tenn.—Sealed proposals, in duplicate, for furnishing and delivering one Centrifugal Sand Pump and Engine will be received at this office until 11:00 A. M., March 14, 1924, and then publicly opened. Further information on application.

Bids close March 14, 1924.

PROPOSALS FOR BOILER AND BOILER FEED PUMP.—Office, Mississippi River Commission, 1st and 2nd Districts, Room 1006, McCall Building, Memphis, Tenn.—Sealed proposals, in duplicate, for furnishing and delivering one Horizontal Boiler and one Boiler Feed Pump, will be received at this office until 11:00 A. M., March 14, 1924, and then publicly opened. Further information on application.

Bids close March 11, 1924.

SEALED PROPOSALS, indorsed, "Proposals for Hospital Construction, Pikesville, Ky.," will be received by the U. S. Veterans Bureau, Room No. 791, Arlington Building, Washington, D. C., until 11 A. M., March 11, 1924, and then there publicly opened, for the construction complete, of one fireproof hospital building, one double officers quarters of brick and frame construction, one brick and frame well house, one steel water tank, and one drilled well to be built at U. S. Veterans Hospital, Pikesville, Ky., as shown on drawings and described in the specifications. This work will include concrete foundation work, reinforced concrete slab construction, limestone, brick and terra cotta tile work, metal lathing, built-up roofing, slate roofing, cement, mastic, tile and wood flooring, slate and marble work, carpentry, ironwork, interior plastering, interior and exterior painting, glazing, hardware, heating, plumbing and electrical installation, outside service connections and approach work. Drawings and specifications may be obtained upon application to the Construction Division, Room No. 791, Arlington Building, Washington, D. C. Deposit with application of a certified check or postal money order for \$50 payable to the Treasurer of the United States, is required as security for safe return of drawings and specifications within ten days after date of opening proposals. Frank T. Hines, Director, February 6, 1924.

RATE: 35 cents per line per insertion.

PUBLICATION DAY: Thursday.

FORMS CLOSE 4 P. M., Monday.

DAY LETTER: When too late to send

copy by mail to reach us by 4 P. M.

Monday, forward by day letter.

THE DAILY BULLETIN OF THE

MANUFACTURERS RECORD:

Published every business day; gives

information about the industrial,

commercial and financial activities of

the South and Southwest.

The Daily Bulletin can be used to

advantage when copy cannot reach

us in time for publication in the

Manufacturers Record before bids

are to be opened, or when daily pub-

lications are necessary to meet legal

requirements.

The same rate applies—35 cents per

line per insertion.

Bids close March 28, 1924.

SEALED PROPOSALS, indorsed, "Proposals for Construction of Ice-making and Refrigerating Plant at U. S. Veterans Hospital, Livermore, Calif.," will be received by the U. S. Veterans Bureau, Room No. 791, Arlington Building, Washington, D. C., until 11 A. M., March 28, 1924, and then there publicly opened, for the construction and installation, ready for operation, of a raw-water ice-making and a complete refrigerating plant for U. S. Veterans Hospital, Livermore, Calif., as shown on drawings and as described in specifications. Drawings and specifications may be obtained upon application to the Construction Division, Room No. 791, Arlington Building, Washington, D. C., or to Wm. H. Radcliffe, Bureau Representative at U. S. Veterans Hospital, Livermore, Calif. Deposit with application of a check or postal money order for \$15 payable to the Treasurer of the United States, is required as security for safe return of drawings and specifications within ten days after date of opening proposals. Frank T. Hines, Feb. 11, 1924.

Bids close March 11, 1924.

\$150,000 6% Bridge Bonds.

Bennettsville, S. C.
Sealed bids for \$150,000.00 Marlboro Bridge District Bonds will be received up to Noon, (12 o'clock) Tuesday, March 11, 1924, by The Marlboro Bridge Commission, at the office of E. W. Evans, Bennettsville, South Carolina.

Serial Bonds are for one thousand dollars each, with interest coupons attached at six per cent per annum, payable semi-annually.

A certified check in the sum of \$1500.00, payable to J. W. LeGrand, Chairman, as evidence of good faith must accompany each bid.

The right to reject any or all bids is hereby reserved.

For further information address J. W. LEGRAND, Chairman, Bennettsville, S. C.

Bids close March 14, 1924.

\$25,000 6% Bonds

Waxhaw, N. C.
Sealed bids will be received by the undersigned, Mayor Town of Waxhaw, N. C., until 3:00 o'clock P. M. on March 14, 1924, for the purchase of \$25,000 Bonds of the Town of Waxhaw, N. C., to be known as Light & Power Bonds. Said Bonds will bear interest at 6% per annum, payable semi-annually, both principal and interest payable at the National Park Bank of New York City; the Bonds will be dated March 1, 1924, and will be in denominations of \$1000 and will be serial bonds, maturing as follows: \$1000, March 1, 1927; \$1000, March 1, 1929; \$1000, March 1, 1931; \$1000, March 1, 1933; and \$1000, on March 1 of each year thereafter up to and including the year 1954. The bonds will be coupon bonds and will be registerable as to both principal and interest. The unqualified approving opinion of the validity of the bonds by Messrs. Story, Palmer, Thorndyke & Dodge, of Boston, will be furnished the purchaser free of charge. Bids must be accompanied by certified check for 2% of the amount of bid as evidence of good faith.

Right is reserved to reject any and all bids. For further information address the undersigned.

H. B. ADAMS, Mayor.

Bids close March 10, 1924.

\$75,000 6% Bonds

Sebring, Fla.

Notice is hereby given that the Board of County Commissioners for Highlands County, Florida, will on the 10th day of March, A. D. 1924, at the hour of 10 o'clock in the forenoon receive bids for the sale of \$75,000.00 bonds of Highlands County, Florida, said bonds due and payable as follows:

\$25,000.00 due January 1st, 1934

\$25,000.00 due January 1st, 1936

\$25,000.00 due January 1st, 1938

The Bonds to bear interest at the rate of 6 per cent per annum. Said Board reserves the right to reject any and all bids. Said Sale of bonds to be a part of bonds theretofore authorized for general paving of Highlands County, Florida.

WILLIAM KING,

Chairman, Board of County Commissioners.

Highlands County, Florida.

Bids close March 20, 1924.

Ashley River Bridge

SOUTH CAROLINA STATE HIGHWAY DEPARTMENT

F. A. PROJECT No. 215 ASHLEY RIVER BRIDGE

Charleston, S. C.

Sealed bids will be received until 12:00 o'clock noon, Thursday, March 20th, 1924, at the office of the Sanitary and Drainage Commission of Charleston County, 39 Broad Street, Charleston, S. C. for the construction of the bascule span superstructure of a bridge over the Ashley River, on State Highway No. 6, at Charleston, S. C.

The work to be done consists of the construction of the superstructure of a 166 ft. double leaf Strauss Bascule span, Bridge will have a 34 ft. roadway and two 4½ ft. sidewalks. The approaches and substructure of bascule span are now under construction.

The principal quantities are approximately:

Machinery and Casings... 756,800 lbs.

Machinery & Castings... 144,800 lbs.

Counterweight Concrete... 480 cu. yds.

Creosoted Lumber... 34 M.B.M.

Electrical Operating Equipment complete.

Bids must be accompanied by a certified check or corporate surety bond made in South Carolina for Three Thousand Dollars (\$3,000.00), made payable to the Chairman of the South Carolina State Highway Commission.

Proposal forms, plans and specifications will be on file at the office of the Sanitary and Drainage Commission of Charleston County, 39 Broad Street, Charleston, S. C. Proposal forms, plans and specifications may be secured at the office of the State Highway Engineer, Columbia, S. C. Requests for plans must be accompanied by a check for \$5.00 and no refund will be made for plans returned.

Bids close March 10, 1924.

Inlet and Bridge Construction

Lake Worth, Fla.

Bids will be received up to 8.00 P. M., March 10, 1924, for the construction of an inlet, its protection and a bridge. The site is one mile north of the Boynton Beach Hotel at Boynton, Florida.

Each bid must be accompanied by a certified check of \$1000 payable to the order of the Treasurer of the South Lake Worth Inlet District.

The bridge is to be a rainbow arch of 100 feet clear span.

The jetties are covered by alternate plans, one for pre-cast concrete blocks, and the other for large granite boulders.

A. A. ATWATER, Chairman,

Boynton, Florida.

C. C. McCUNE, Secretary,

Lake Worth, Florida.

THE RIDDLE COMPANY,

Chief Engineer,

705-707 Guaranty Bldg.,

West Palm Beach, Fla.

Bids close March 12, 1924.

Road and Bridge Construction
VIRGINIA STATE HIGHWAY
COMMISSION

Richmond, Va., February 20, 1924.

Sealed bids will be received at the office of the State Highway Commission, State Office Building, Capitol Square, Richmond, Va., until 10:30 A. M. Wednesday, March 12, 1924, for the construction of the following:

1. Proj. F-118-B, Rt. 33—5.1 Mi. So. Roanoke—Boone Mill Roanoke and Franklin Cos. 4.0 Mi. 18' Bit. Mac. Approx. 1 Ac. Clearing, 73,667 Cu. Yds. Exc., 4500 Cu. Yds. Borrow, 528 lin. ft. pipe, 406 Cu. Yds. "A" Conc., 27 Cu. Yds. "B" Conc., 30,625 lbs. reinf. steel, 6616 lin. ft. Gd. Rail. Including 112' Reinf. Conc. Bridge over Back Creek.
2. Proj. F-118-E, Rt. 33—5 Mi. to Rocky Mount—Rocky Mount Franklin Co. 5.1 Mi. 18' 8" Bit. Mac. Road. Approx. 18 Ac. Clearing, 79,600 Cu. Yds. Exc., 1916 lin. ft. pipe, 92 Cu. Yds. "A" Conc., 65 Cu. Yds. "B" Conc., 8022 lbs. Reinf. Steel, 8400 lin. ft. Gd. Rail, 291 Cu. Yds. Cement Rubble Masonry, 73,900 lbs. Struct. Steel. Including 85' steel truss over Blackwater River.
3. Proj. S-134-A, Rt. 14—Lawyers Road M.P. 68.1—5.4 Mi. So. M.P. 62.9—5.4 Mi. 22' Top Soil. Approx. 1 Ac. Clearing 29,552 Cu. Yds. Exc., 694 lin. ft. pipe, 77 Cu. Yds. "A" Conc., 157 Cu. Yds. "B" Conc., 6335 lbs. Reinf. Steel, 630 lin. ft. Gd. Rail. No special design bridges. Campbell Co.
4. Proj. S-188-B, Rt. 325—Lunenburg C. H.—5.2 Mi. West Lunenburg Co. 5.2 Mi. 22' Top Soil Road. Approx. 16.7 Ac. Clearing 45,563 Cu. Yds. Exc., 458 lin. ft. pipe, 85 Cu. Yds. "A" Conc., 210 Cu. Yds. "B" Conc., 6128 lbs. Reinf. Steel, 3455 lin. ft. Gd. Rail, including 65' Reinf. Conc. Bridge over Couches Creek.
5. Proj. S-196, Rt. 22—Two bridges and approaches over Craig Creek: One 167' Steel Truss and Reinf. Conc. Bridge, One 142' Steel Truss and Reinf. Conc. Bridge, 0.8 Mi. Grading and Drainage, in Approaches. Approx. 8500 Cu. Yds. Exc., 5800 Cu. Yds. Borrow, 142 lin. ft. pipe, 238 Cu. Yds. "A" Conc., 79 Cu. Yds. "B" Conc., 37,950 lbs. reinf. steel, 165,051 lbs. structural steel, 1496 lin. ft. Gd. Rail, Craig Co.
6. Proj. S-293, Rt. 23—Newport—Hoges Store, Giles Co. 9.0 Mi. Grading and Drainage. Approx. 15 Ac. Clearing, 121,090 Cu. Yds. Exc., 1810 lin. ft. pipe, 192 Cu. Yds. "A" Conc., 289 Cu. Yds. "B" Conc., 13,745 lbs. reinf. steel, 9000 lin. ft. Gd. Rail. Including 129' Reinf. Conc. Bridge over Sink Creek.
7. Proj. S-317, Rt. 12—Chase City—Boydton Mecklenburg Co. 5.1 Mi. Bit. Mac. Approx. 2 Ac. Clearing, 24,000 Cu. Yds. Exc., 500 lin. ft. pipe, 90 Cu. Yds. "A" Conc., 20 Cu. Yds. "B" Conc., 6000 lbs. Reinf. Steel, 700 lin. ft. Wood Gd. Rail. Inclusive of 37' Reinf. Conc. Bridge over Butchers Creek.
8. Proj. S-328, Rt. 394—Phoebus to Buckroe Beach, in Elizabeth City County. 1.8 Mi. 18"x8"-6"-8" Concrete Road. Approx. 3874 Cu. Yds. Excavation, 464 lin. ft. pipe, 25 Cu. Yds. "A" Conc., 25 Cu. Yds. "B" Conc., 1380 lbs. reinf. steel. No special design bridges.
9. Proj. S-343, Rt. 11—Tazewell to North Tazewell, in Tazewell County. 0.5 Mi. Concrete, 16'-8"-6"-8"; ALTERNATE bids for 16' Bit. Mac. 540 Cu. Yds. Excav., 841 Cu. Yds. Borrow, 29.6 Cu. Yds. "A" Conc., 1842 lbs. reinf. steel. No special design bridges.
10. Proj. S-345, Rt. 101—Virginia Beach to Fort Story, in Princess Anne County. 3.3 Mi. 18"x8"-6"-8" Concrete Road. 16 A. Clearing, 29,079 Cu. Yds. Borrow, 416 lin. ft. pipe, 19.7 Cu. Yds. "B" Concrete. No special design bridges.
11. Proj. S-349, Rt. 29—Intersection of Rt. 291 to 2.85 Mi. N. of Gloucester C. H. in Gloucester County. 3.2 Mi. 16"x8"-6"-8" Concrete Rd. Approx. 2.3 Ac. Clearing, 10,100 Cu. Yds. Excav., 600 Cu. Yds. Borrow, 468 lin. ft. pipe, 23 Cu. Yds. "A" Concrete. No special design bridges.

Proposal guaranty to be \$500 for bids less than \$100,000 and \$1000 for bids more than \$100,000. Certified or cashier's check, or proposal bonds acceptable.

Plans and specifications are on file at the State Highway Dept. and at the office of the following District Engrs. Proj. F-118-B, F-118-E, S-196-C and S-293 at Salem; Proj. S-134-A at Lynchburg; Proj. S-188-B and S-317 at Richmond; Proj. S-343 at Bristol; Proj. S-328 and S-345 at Suffolk; Proj. S-349 at Fredericksburg.

Additional plans for bidders on the above project may be obtained upon application to the State Highway Department upon receipt of \$5.00 payable to H. G. Shirley, \$2.50 of which will be refunded if plans are re-

turmed within two weeks after bids are opened.

Engineers will be at the following places to show prospective bidders over the work: F-118-B, Roanoke Hotel, Roanoke, 11 A.M. Sat., March 8th; F-118-E Rocky Mount Hotel, Rocky Mt., 10:30 A.M. Friday, March 7th, Proj. S-134-A, Office of Dist. Engr. Lynchburg, 12 noon Thursday, Feb. 28th; S-188-B, Lunenburg Court House, 10:30 A.M. Friday, March 7th; S-196-C, Dist. Engrs. Office, Salem, 10 A.M. Wed., Feb. 27th; S-293 Pembroke, 9:30 A.M. Monday, March 10th, S-317 Hotel Gregory, Chase City, Tuesday, Feb. 26th; S-328 Old Point, 11 A.M. Sat., March 1st; Proj. S-343 Tazewell Court House, 10 A.M. Sat., March 1st; S-345 Casino Station, Va. Beach, 10 A.M. Friday, Feb. 29th; S-349, Gloucester C. H. 10:30 A.M. Wednesday, March 5th.

The State Highway Commission reserves the right to reject any or all bids.

C. S. MULLEN,

Acting Commissioner.

H. G. SHIRLEY,

Chairman.

Bids close March 11, 1924.

Oiling State HighwaySTATE OF MARYLAND,
STATE ROADS COMMISSION.
NOTICE TO CONTRACTORS.

Baltimore, Md.

SEALED PROPOSALS for oiling seven sections of State Highway as follows (requiring approximately 1,022,544 gallons of oil):

District	No.	Counties	Miles	Gallons
1	Dorchester, Somerset,			
	Wicomico, Worcester	55	111,067	
2	Cecil, Talbot, Queen			
	Annes	30	58,819	
3	Part Montgomery	41	82,983	
3A	(Gravel) Anne Arundel, Charles	46	241,824	
4	Baltimore, Harford ..	50	100,116	
5	Carroll, part Frederick, Howard, part Montgomery	90	177,269	
6	Allegany, Garrett, part Frederick, Washington	125	250,466	
		437	1,022,544	

Will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 11th day of March, 1924, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 25th day of February, 1924.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

Bids close March 24, 1924.

Road Construction

Pensacola, Fla.

Sealed bids will be received by the Board of County Commissioners of Escambia County, State of Florida, at the office of Circuit Clerk of Escambia County, Pensacola, Florida, until 10 o'clock A. M. March 24, 1924, and at that hour publicly opened, for construction of County Project No. 9, on the Pensacola-Flomaton Road, beginning at Roberts, Florida, 10 miles north of Pensacola, and running 6.57 miles in a northerly direction to a point 1 1/2 miles north of the Cottage Hill railroad station.

Construction of this 18-foot roadway is to be of either plain concrete; reinforced concrete; brick on concrete base; Bituminous Concrete; Kentucky Rock Asphalt, or Bituminous "B" Concrete, on concrete or broken stone (or slag) base.

The use of either foreign or domestic cement will be allowed in all cement concrete construction; and the County will consider bids with the County furnishing cement, or with the Contractor furnishing the same.

Plans and specifications are on file in the office of the Circuit Clerk of Escambia County, Pensacola, Florida, and may be obtained upon deposit of Ten Dollars, which will be refunded upon return of said plans

and specifications by a bona fide bidder.

The right to reject any or all bids is reserved.

Certified check for the sum of five (5) per cent. of total amount of bid must accompany each bid as evidence of good faith and as a guarantee that if awarded contract, the bidder will execute contract and give bond as required.

H. E. GANDY,

Chairman, Board of County Commissioners.

Attest:

JAMES MACGIBBON,

Clerk Circuit Court.

Bids close March 3, 1924.

Resurfacing Streets

Pine Bluff, Ark.

The Commissioners of Paving District No. 71 of the City of Pine Bluff, Arkansas, will receive bids until 2 o'clock P. M. Monday, March 3, 1924, at which time said bids will be opened for the purpose of letting a contract for resurfacing with vitrified brick blocks, certain streets and portions thereof in said district. Bids must be accompanied by a certified check executed by a local bank, in the sum of TWO THOUSAND DOLLARS, payable to the Treasurer of said paving district.

The quantities and classes on which bids will be received are approximately:

- 21,000 sq. yds. of brick pavement.
- 607 sq. yds. of base repairs.
- 904 sq. yds. concrete removal (from old road).
- 1120 linear feet of combination concrete curb and gutter.

- 2100 sq. yds. 6 inch concrete base.
- 750 cu. yds. earth excavation.
- 300 linear feet 18 inch storm sewer.
- 300 linear feet 36 inch storm sewer.
- 2 Five foot standard manholes.
- 4 Standard catch basins.

Certified checks belonging to unsuccessful bidders will be returned immediately following the letting. Plans and specifications may be procured from Frank R. Allen, City Engineer, Pine Bluff, Arkansas, on payment of a cost charge of \$5.00.

W. J. SHEPHERD,

Chairman of Board of Commrs.

F. G. SMART,

Secretary of Board of Commrs.

Bids close March 3, 1924.

Water Works and Sewers

Altavista, Va.

Bids will be received by the Mayor and Town Council of the Town of Altavista, Virginia, until 6 o'clock p. m. of March 3, 1924, for the construction of a filtration and pumping plant for the municipal water works, and for water and sewer mains in the town. The work will include 650 feet of 12-inch c. i. gravity main.

Concrete and brick building for the plant. A 30,000 gallon steel wash water tank. 6,500 feet of 8-inch c. i. force main. A 50,000 gallon steel standpipe.

Two low service centrifugal pumps, each 700 g. p. m.

Two high service centrifugal pumps, each 700 g. p. m.

Two electric motors, with wiring and appurtenances.

One semi Diesel fuel oil engine, of not less than 125 h. p.

A considerable amount of cast iron service mains, from 4-inch to 10-inch.

A considerable amount of sewer mains, sizes 6-inch to 12-inch.

All necessary filter equipment for two 500,000 gallon units.

The right is reserved to reject any or all bids, and to let the work as a whole or in parts.

Each bidder will be required to file with his bid a certified check, cashiers check or bidders bond, in the sum of 5% of the face of his bid.

This check, or bond will become a forfeit to the Town of Altavista if contract is not entered upon and bond executed promptly after the award.

The successful bidder will be required to execute an indemnity bond, in the sum of one-third the face of his bid, to safeguard the satisfactory performance of the contract. This bond must be made by some satisfactory bonding company.

Plans and specifications may be examined at the office of Mr. W. S. Corbin, Altavista, Virginia.

A copy will be sent to contractors only, on receipt of a deposit of \$10.00.

This deposit will be returned only to those who submit bona fide bids before the date for closing, and who have returned the plans and specifications in good condition.

W. S. CORBIN,

Chairman Water Committee,
THE AMBLER ENGINEERING COMPANY,
Richmond, Virginia.

Bids close March 10, 1924.

Paving

St. Petersburg, Fla.
Sealed proposals will be received by the Director of Finance of the City of St. Petersburg, Florida, until 7.30 P. M., March 10, 1924, for constructing about 400,000 sq. yds. of Brick or Asphalt Block pavement with Granite curb.

Bidders must accompany their proposal with a certified check, for \$25,000.00 payable to the Director of Finance.

The City reserves the right to reject any or all bids and to waive any or all technicalities in awarding contract. Further information on application.

S. S. MARTIN,
Acting Director of Finance.

Bids close March 11, 1924.

School Buildings

SEPARATE BIDS ON
BUILDINGS, ELECTRICAL WORK,
PLUMBING,
HEATING AND VENTILATING

Sumter, S. C.
Sealed proposals will be received by the Board of Trustees, Sumter City Schools, Sumter, S. C., in the offices of the Board of Trade, at noon March 11, 1924, for the erection and equipment of the following buildings:

Boys' High School.
Girls' High School.
Primary School.
Negro School.

The following separate contracts will be made for each:

Building Construction.
Electrical Work.
Plumbing.
Heating and Ventilating.

Bids will be considered on each of the four contracts on each building separately and on each contract covering all four buildings.

Plans and specifications may be seen and estimates may be made without cost at the following points:

Office of Wilson, Berryman & Kennedy, Architects, Columbia, S. C.
Office of Builders' Exchange, Columbia, S. C.

Office of Builders' Exchange, Atlanta, Ga.
Office of Chamber of Commerce, Charlotte, N. C.

Office of Chamber of Commerce, Greensboro, N. C.

They may also be obtained upon application to Wilson, Berryman & Kennedy, Architects, Columbia, S. C., on deposit of Ten (\$10.00) Dollars for each set of plans, or division of plans, that they may desire as a guarantee that they will be returned in good condition and without expense within five (5) days of the date set for the submission of bids, and that a bona fide bid be made. When these conditions are met, the deposit will be refunded; otherwise it will be retained by the Architects.

Sub-contractors and material men may secure such portions of the plans and speci-

fications as they may desire at current blue print rates.

Each bid must be accompanied by a certified check or bid bond, the amounts to be as follows:

1. Girls' High School..... \$2,500.00
2. Boys' High School..... 1,500.00
3. Washington School..... 250.00
4. Negro School..... 750.00

The above amounts to be a guarantee that if bid is accepted, the contractor will enter into a contract and give bond in the form of the American Institute of Architects (3rd Edition), in an approved Surety Company for an amount not less than one-third of the contract price, covering the contract and its guarantees for a period of twenty-seven (27) months.

The right is reserved to reject any or all bids.

J. A. MOOD, Chairman.
J. W. BRUNSON, Secretary.

Ice Plant

Madison, Fla.
The Town of Madison, Florida, is now ready to receive bids or contract for the installation of a ten ton ice plant in connection with their power plant, plant to be up-to-date in every particular.

If you are manufacturer or contractor and interested, communicate with H. D. Oxford, chairman of the Water Works Committee, or S. P. Griffin, City Clerk.

S. P. GRIFFIN,
Clerk and Treasurer.

Bids close March 10, 1924.

Water Works Plant

Sanford, Fla.
Sealed proposals will be received by the City of Sanford, Fla., until two-thirty o'clock P. M., Monday, March 10, 1924, for Equipment and Construction of a Water-works Plant as follows:

Approximately 20 miles of watermaines with valves, hydrants, etc.
Concrete Reservoir and Tank Foundation.
Pumping station.
Wells and well pumps.
Pumping machinery and other necessary equipment.

200,000 gallon steel tank on tower.
A certified check or Bidders Bond for the amount of five per cent (5%) of the bid price, made payable to the City Commission, must be deposited with each bid.

Plans and specifications can be seen after Feb. 20th at the office of the City Manager and of the Consulting Engineer. Specifications can be had from the Consulting Engineer upon the deposit of one dollar, plans upon the deposit of one dollar per item. These deposits will be returned when a good faith bid is submitted.

The City Commission reserves the right to reject any or all bids.

CITY COMMISSIONERS,

By
W. B. WILLIAMS, City Manager.
JOS. E. CRAIG, Engineer,
427 King St.,
Jacksonville, Fla.

Office Building

Tampa, Fla.
B. C. Bonfoey, architect, Tampa, Florida, has the plans and specifications completed for the Tampa Tribune twelve story office building and solicits bids from contractors who are qualified to handle a contract of that magnitude. Building must be completed within twelve months from date of contract.

Bids close March 18, 1924.

College Buildings

Gaffney, S. C.
Sealed proposals will be received by the Building Committee of Limestone College at Gaffney, S. C., at 7.30 P. M. on Tuesday, March 18, 1924, for the erection of the following buildings:

Hamrick Hall of Science.
Carroll School of Fine Arts.
President's House.

Plans and specifications may be seen and estimates may be made without cost at the following offices:

Wilson, Berryman & Kennedy, Architects, Columbia, S. C.

Wilson, Berryman & Kennedy, Architects, Gastonia, N. C.

Wilson, Berryman & Kennedy, Architects, Wilson, N. C.

Builders' Exchange, Columbia, S. C.

Builders' Exchange, Atlanta, Ga.

Chamber of Commerce, Charlotte, N. C.

Chamber of Commerce, Greensboro, N. C.

They may also be obtained upon application to Wilson, Berryman & Kennedy, Architects, Columbia, S. C., on deposit of ten and no/100 (\$10.00) Dollars for each set of plans, as a guarantee that they will be returned without expense and in good condition within five days of the date on which bids are submitted, and that a bona fide bid will be made. When these conditions are met the deposit will be refunded; otherwise it will be retained by the Architects.

Sub-contractors and dealers in material may secure such portions of the plans and specifications as they may desire at current blue-print rates, without refund.

Each proposal must be accompanied by a certified check or bid bond in the following amounts:

Hamrick Hall of Science.... \$1,250.00
Carroll School of Fine Arts.. 1,250.00
President's House..... 500.00

These deposits are to guarantee that if the proposal is accepted the contractor will enter into a contract and give bond in the standard form of the American Institute of Architects (3rd Edition) in an approved Surety Company for an amount not less than one-third of the contract price covering the contract and its guarantees, to completion and for twenty-seven (27) months thereafter.

The right is reserved to reject any or all bids.

W. C. HAMRICK, Chairman.



CLASSIFIED OPPORTUNITIES



MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES

CLAY FOR SALE—200 acres. Good vein fire and brick clay. Plenty coal and timber. Can be handled by gravity. Close to railroad. Box 52, Barrs Mills, Ohio.

WATER POWER

ATTRACTIVE UNDEVELOPED water power and mill site within one and one-half miles of Railroad in North East Georgia. Would like to get in communication with interested parties. J. H. Tate, Anderson, S. C.

COAL LANDS AND MINES

COAL MINE BARGAIN, IMMEDIATE SALE—Located on Louisville and Nashville and Southern Ry., non-union territory, lease 500 acres—38-in. Jellico seam, capacity 400 tons daily, now operating fully equipped, miners houses, commissary, etc., \$22,500 liberal terms if desired. Dr. E. Guynes, 513 Walnut Street, Knoxville, Tenn.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost, allow seven words of ordinary length to a line. When the advertisement contains a number of long words, proper allowance should be made. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisement accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c. per line; 300 lines, 26c. per line; 500 lines or more, 25c. per line.

MANGANESE

MANGANESE:—260 acres, half mile of river and R. R.—situated in Rockingham County, Va., high grade of ore. Has yielded 6000 tons the acre. For full description and references write Box 107, Fairfax, Va.

TIMBER AND TIMBER LAND

OREGON TIMBER FOR SALE BY OWNER Operators or investors take notice, 2700 acres in a solid body, all in one water shed, 2½ miles from main line S. P. R. R. and a good town; 90 million old growth sound growing Fir and 15 million exceptionally fine Sugar Pine, will cut strong to clears, conditions favorable for very cheap logging; 2% grade from main line S. P. R. R. to the center of tract; plenty of water for operation. Step down in lumber freight rates to California markets takes places at this station. Tract was bunched 15 years ago by us and is on the market for the first time; it is a choice piece of property and you can deal direct with owner by addressing R. E. GRISWOLD, 468 W. 10th St., Eugene, Ore.

FARM, FRUIT, AND TRUCK LANDS

FLORIDA

FLORIDA—Playground of the Rich; Paradise of the poor. The fastest developing State in the Union, and Roger Babson, the great business statistician, says that TAMPA is destined to be the greatest city in the Southeast. Come and be one of us. We have a Home, Grove or Farm for you. Send today for booklet "Largest Orange Tree in the World," and list. Tampa-West Coast Realty Co., (Inc.), Opp. Post Office, "Since before the war," Tampa, Fla.

FOR SALE.

Six thousand acres of land, good for fruit and farming, also fine satsuma orange land, high well drained, over two hundred feet above sea level; fine lakes and good fishing and hunting, will take \$12.50 per acre, other land in same vicinity has been selling as high as \$200.00 per acre, this is a good purchase will net any purchaser 8 per cent annually on his investment. Apply to G. M. Thomas, Marianna, Fla.

MISSISSIPPI

WANTED TO SELL.

Wanted to sell good improved 400 acre farm in Holmes County, Miss. Fine bottom land well drained, one and one-half miles from railroad. Sand and clay highway running through this place to railroad. In connection with this place we offer house and lot in railroad town one and a half miles from farm. We also offer a 320 acre delta farm in Bolivar County, Miss. Good house and barn and 40 acres in cultivation. Will grow anything. Fine opportunity for young farmer. Will sell for part cash and balance on terms. Address No. 6287 care Manufacturers Record.

VIRGINIA

FARMS TO FIT—Mild climate. Nearby markets. Easy terms. Booklet free. 165a, \$15,000. Splendid buildings, easily worth \$25,000. Ponton, The Farm Tailor, Box 343, Bedford, Va.

BUSINESS OPPORTUNITIES

I OWN VALUABLE PATENTS on Bolted Metal Tank-Silo and Grain Crib construction. Demonstrated practical, both domestic and export. Offer liberal share and control of capital to manufacture. Address No. 6288, care Manufacturers Record.

I SPECIALIZE in industrial, warehouse and business sites at and adjacent to Washington, D. C.

M. B. HARLOW, Harlow Building, Alexandria, Va. Colorado Building, Washington, D. C.

FOR SALE FISHING RIGHT. The best in the State. Lake covers two thousand acres of land. Will sell exclusive right and I will look after same. Fine hunting also. Will give deed, good title. A great place for sport.

G. M. Thomas, Marianna, Fla.

FILTER SAND USERS.—We are offering for filter purposes, 98 1/2% silica sand, effective size .45 millimeters, uniformity coefficient 1.6. Sample sent on request. EVANS SAND CO., ELLIOTT, S. C.

WANTED CAPITAL to develop townsite, own 640 acres that two railroads cross on, in S. E. Okla., surrounded by coal, oil, gas and rich farming. Particulars to interested parties only. Write J. E. Cavanagh, McAlester, Okla.

For Sale at Knoxville, Tenn.

THE FASTEST GROWING CITY in the South, population 114,000: One & Two Story Brick Warehouse 50x160 on Southern Ry. Siding, fronting on paved street, within 3 blocks of the center of city. Electric Elevator; Floor scales; nice offices, etc. Garage for six trucks, suitable for any wholesale business, or small manufacturer. Price and terms RIGHT.

If you want to locate a branch or plant in the best wholesale city in the South, get in touch with B. J. THORP (Owner), 709 Jacksonboro, Knoxville, Tenn.

NORTH CAROLINA MAKING WONDERFUL PROGRESS. Raleigh, the Capitol City, is centrally located. For rent two suites of offices in modern, fire-proof building, situated in the heart of the business district. Each suite approximately fifteen hundred feet of floor space. For particulars write Allison & Betts, Raleigh, N. C.

BUSINESS OPPORTUNITIES

TWENTY THOUSAND FEET of floor space to rent in modern, fireproof, daylight building, located in wholesale district, especially suited for garment or textile manufacturing purposes. Public hall and elevator entrance to each floor. Will rent one, two or three floors. Bowman-Moore Hat Company, Knoxville, Tennessee.

FOR SALE nice home, 600 acre farm and hydro-electric plant with a twenty-year contract with the City of Marianna for light and power. Plant pays ten thousand dollars a year; also good fishing and hunting as there is in the State, fine sport. An ideal place for anybody to live. Six miles South of City of Marianna. Want to sell quick. Wire or write or come to G. M. Thomas, Marianna, Fla.

SUBSTANTIAL MANUFACTURING COMPANY wants capable man to open office and manage salesmen, \$500 to \$1500 necessary. Possibilities unlimited. Atlantic Coast Mfg. Co., McKevitt Bldg., Norfolk, Va.

FINANCIAL

SOUTHERN
MILL STOCKS
BANK STOCKS
BONDS

25 years' experience in this field.
F. C. ABBOTT & CO.,
Charlotte, N. C.

FACTORY SITES

FOR SALE.

For building and manufacturing and warehouse sites on Southern railway and national highway.

- 1 Lot 200x385 Feet.
- 1 Lot 160x385 Feet.
- 1 Lot 195x595 Feet.
- 1 12-acre track on belt road.

J. J. SHUMAN,
No. 8 N. Church St., Charlotte, N. C.

INDUSTRIES WANTED

SMALL FACTORY can do well at Gobles Mich., low rent for workers. Power, light, water, free site, etc. Lock Box 412, Gobles, Mich.

INDUSTRIAL PLANTS

BRICK MANUFACTURING PLANT. For sale or lease. Low price and easy terms.
U. H. Davenport, Athens, Ga.

PATENT ATTORNEYS

INVENTORS—Send sketch or model of your invention, for opinion concerning patentable nature, and exact cost of applying for patent. Book, "How to Obtain a Patent" sent free. Gives information on patent procedure and tells what every inventor should know. Established 25 years. Chand-lee & Chandlee, 412 7th St., N. W., Washington, D. C.

PATENT-SENSE—As one of the oldest patent firms in America we give inventors at lowest consistent charge, a service noted for results, evidenced by many well-known Patents of extraordinary value. Book, Patent-Sense, free. Lacy & Lacey, 735 F St., Washington, D. C., Estab. 1869.

PATENTS-TRADEMARKS-COPYRIGHTS. WRITE for our free Guide Books and "RECORD OF INVENTION BLANK" before disclosing inventions. Send model or sketch and description of your invention for our free prompt opinion of its patentable nature. Highest references. Reasonable terms. VICTOR J. EVANS & CO., 712 Ninth St., Washington, D. C.

PATENTS—Booklet free. Highest references. Best results. Promptness assured. Watson E. Coleman, Patent Lawyer, 644 G St., N. W., Washington, D. C.

SITUATIONS WANTED

CIVIL ENGINEER fifteen years experience, desires permanent position county or city engineer. Highway experience six years, three states, all capacities. Reasonable salary. R. W. J., Apt. 21, 1301 Porter St., Richmond, Va.

SITUATIONS WANTED

WANTED—Position as manager or superintendent of Hydrate, Building and Agricultural Lime Plant. Have had extensive experience. Address O. K. Nelson, North Tazewell, Virginia.

GRADUATE mining and civil engineer with broad experience and training in designing, supervising construction and contracting, desires to make connection with industrial plant, architect or contractor handling work as field superintendent or business matters in office. Can handle maintenance work. Considerable experience in housing, Registered engineer. Prefer work in South. F. K. Miller, care Morrie Co., 113 Plume St., Norfolk, Va.

CHAMBER OF COMMERCE SECRETARY with several years experience in general development work and now employed as general secretary in good town desires Chamber of Commerce secretaryship in hustling southern city between 5000 and 15,000. Address No. 6294, care Manufacturers Record.

MEN WANTED

SALESMAN—High grade salesman with mechanical training to sell Davenport Heavy-duty Oil Engines to dealers and industrial plants. Opportunity to earn big commissions. Full time and side line men wanted. Write Dept. 309, Davenport Mfg. Co., Inc., Davenport, Iowa.

HIGH CLASS SALESMEN WANTED. experienced in Boiler room equipment, and acquainted with this class of trade to handle an Improved Grate Bar. Territory will cover about one-half of a State South of Virginia and East of the Mississippi River. Salesmen will work on a very liberal commission basis only and it is desired that entire time be devoted to this equipment. Simmons Manufacturing Company, Box 935, Wilmington, North Carolina.

WANTED. Salesman to travel North Carolina. One familiar with Marble and Tile business and particularly high grade Architectural Mantels and fireplaces. Address P. O. Box 684—Greensboro, N. C.

Salaried positions \$2500 to \$25,000 upward; executive, technical, administrative, engineering, manufacturing, professional managing, financial, etc., all lines. If you are qualified and receptive to tentative offers for a new connection you are invited to communicate in strict confidence with the undersigned who will conduct preliminary negotiations for such positions. A method is provided through which you may receive overtures in confidence, without jeopardizing present connections, and in a manner conforming strictly to professional ethics. Send name and address only; preliminary particulars will be sent without obligating or compromising you in any way. R. W. Bixby, Inc., 403 Lockwood Building, Buffalo, N. Y.

MACHINERY AND SUPPLIES

FOR SALE—Class B 16x16 Pyramidal Tents, made of 12-ounce Army Duck. Brand new 7'x10' Wagon Covers. Jacob Hirsch, Macon, Ga.

FOR SALE

At a sacrifice, 2 Merriman Asphalt Plants. Price low for quick sale. P. O. Box 1488, Greensboro, N. C.

FOR SALE, BARGAIN—Lightning centrifugal pump for sand, gravel, mud or water. Perfect condition. Used less than three weeks. Have put in heavier outfit. W. A. Morse, Pocomoke City, Md.

FOR SALE: Centrifugal Pumping Plant capacity 125,000 G.P.M. four Units. Compound Corliss Engines, Rope Drives, four Internal Fired Boilers, one B & W. Oil Burning Equipment, Feed Pumps, Heater, Condensers. Each Unit complete, ready to run. First-class condition. Will sell any part. Sold under foreclosure. If interested write for description and full information. H. A. PAINE COMPANY, Houston, Texas.

MACHINERY AND SUPPLIES WANTED

WANTED—USED GENERATOR, 20 kva. or larger, 220 volts 3 phase, 60 cycles, in good operating condition. Ira W. Hall, Brownwood, Texas.



SPECIAL ADVERTISEMENTS OF GENERAL INTEREST



RECEIVERS' SALE IN EQUITY

U. S. District Court for the Eastern District of Penna. Sept. Term,
1923. No. 2905.

VALUABLE PLANT OF THE FOX MOTOR CAR COMPANY

7th St. and Grange Ave., near Tabor Station
(Reading R. R.)

To be Sold in Piecemeal Lots Only

MONDAY, MARCH 24, 1924, at 10 A. M.

On the Premises

Real Estate—An exceptional modern three-story and basement brick, concrete and glass factory building, approximately 60 by 400 feet, of the most modern daylight construction. The latest factory improvements and conveniences, including railroad siding, sprinkler system, elevators, heating and lighting systems, toilets, coal pockets, concrete floors and a valuable plot of ground with two street fronts, 378 by 537 feet.

Good Will and Patents—Including all the patents for the Fox Air-Cooled Car, trademarks, blueprints, drawings, patterns, special jigs, dies, tools, name, good will and accounts receivable.

Service Rights—The right to service all cars on the road, the right to receive the company's mail and a large quantity of service parts.

Machinery—Exceptionally fine modern machine tools, including Hendey, Hamilton & Monarch quick-change engine lathes, speed lathes, two Colburn Universal boring machines, ten Cincinnati & Rockford plain and universal millers, three shapers, precision lathes, twelve Brown & Sharp, Landis, Diamonds and Abrasive plain surface and cylinder wet grinders, seven Norton & Universal tool grinders, three Carlton & American 36 and 42 inch radial drills, twelve multiple spindle drill presses, vibrating machine, automatic screw machines, Liberty planer, open side planer, Rockford No. 3 press, rivet heaters, scales, chain hoists, hack saws, furnaces, arbor presses, etc. Also, a large lot of small tools, drills, taps, reamers, boring bars, micrometers, gauges, levels, squares, surface plates, etc. About 50 electric motors from 1 to 10 h. p., etc.

Equipment—Comprising a large quantity of standard parts, front and rear axles, gears, steering wheels, automobile hardware, nuts, screws, bolts, etc.

Stock of Paints and Varnishes—Paint spraying machine, time clocks, time recorders, blueprint machine, handsome mahogany office furniture, typewriters, filing cabinets, adding machine and other modern office equipment.

Illustrated catalog with terms, full description of the property and an itemized list of equipment will be mailed upon application to the Receivers or Auctioneers.

By order of Charles S. Rocky }
C. K. Olberg }

Receivers.

Owen J. Roberts, Esq., 15th Floor, Morris Bldg.
Frank H. Schrenk, Esq., 803 Bailey Bldg.
Thomas S. Lanard, Esq., 803 Bailey Bldg.

Attorneys.

Absolute

AUCTION

Fully Equipped

STEEL PLANT

Plant "C" of the American Manganese Steel Co.

VALUABLE WATER FRONTAGE. LARGE
QUANTITY ELECTRIC MOTORS, FOUN-
DRY AND STEEL PLANT EQUIPMENT.

Sale takes place on the premises

NEW CASTLE, DELAWARE

Friday, March 14th—2 P. M.

For detailed information
communicate with

GERTH'S REALTY EXPERTS

Auctioneers

**505 Fifth Avenue
NEW YORK**

The "CLASSIFIED OPPORTUNITIES"

Department of the

MANUFACTURERS RECORD

A COMBINATION of small advertisements and big results that you can use to your profit if you are seeking a purchaser or lessee for your plant, city property, mineral, timber or farm land, etc., a new location for your factory, business or home, an investment of any kind, a position, agent, employe or partner, or if you have an announcement to make of interest to business men generally.

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In finding the proper location for your Company and employees in Georgia. Our free information facilities and efficient service are available for the asking. Use us.

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Ben R. Padgett, Gen. Mgr.

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Profit or loss is made when the money is spent—realization follows later. Modern and efficient business administration demands centralized, quantity purchasing from prime sources. Pool your requirements through us thereby assuring large savings in every direction. Abolish within your ranks the unskilled, reckless spending of money.

Contract gladly submitted for your examination.

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William F. Thomas

MacBain Bldg., Roanoke, Va.

Operating Mine In Southern Appalachian Field FOR SALE

FULLY EQUIPPED, ELECTRIC HAULAGE. ONE
THOUSAND TONS DAILY OUTPUT—HIGH GRADE
BY-PRODUCT, GAS DOMESTIC AND STEAM COAL.
NON-UNION FIELD.

Address

A-314 Care of Manufacturers Record
BALTIMORE, MARYLAND

AUCTION

IN RE
THE UNITED STATES
vs
GROTON IRON WORKS

34 Acres of water front property—
Wharves, Shipways, Warehouses
and other buildings.

Also large quantity of material con-
sisting of, locomotives, flat cars,
locomotive cranes, travelling cranes,
tower cranes, electric motors, engine
lathes, compressors, air and water
pipe lines, building material, ma-
chine shop and woodworking ma-
chinery, etc.

SALE TAKES PLACE ON THE PREMISES

GROTON, CONN.

(New London)

TUESDAY MARCH 18th, 2 P. M.

Sale by decree of
THE UNITED STATES DIST. COURT
Henry H. Townshend
(Special Master)

For CATALOGUES and DETAILED INFORMATION

Communicate with

GERTH'S REALTY EXPERTS

Auctioneers
505 Fifth Avenue
NEW YORK CITY

Harold J. Gross, James H. Hurley, and E. Tudor Gross,
Auctioneers

1009th Auction Sale

Receiver's Sale

By order of Messrs. J. B. Strongman and A. C. Townsend,
Receivers of the Manhasset Manufacturing Company

The Cotton
Manufacturing Plants

of the

MANHASSET MANUFACTURING COMPANY

at Putnam, Connecticut
and Taunton, Massachusetts

The Plant At Putnam, Conn. To Be Offered

Tuesday, March 18th, 1924

Wednesday, March 19th, 1924

Thursday, March 20th, 1924

Friday, March 21st, 1924

Commencing at 10 o'clock A.M., each day, on the premises

Parcel No. 1—Canal and South Meadow Streets—No. 1 Mill, brick, four stories, 184 x 54 ft., with two story brick additions, 101 x 92 ft. and 46 x 38 ft.; boiler house, machine shop, carpenter shop, garage, and office building, separate; 386 H.P. water privilege; power plant; 90,133 sq. ft. land.

Parcel No. 2—Canal, Jefferson, and South Meadow Streets—No. 2 Mill, two stories and basement, 99 x 56 ft.; No. 3 Mill, brick, two stories and basement, 184 x 124 ft., addition, 50 x 62½ ft.; No. 4 Mill, brick, three stories and basement, 200 x 110 ft.; all connecting; 72,702 sq. ft. land.

Parcel No. 3—Canal and Jefferson Streets—New Mill Building, brick three stories, 190 x 110 ft.; 30,200 sq. ft. land.

Parcel No. 4—Harris Street—Lot of Land, area, 30,000 sq. ft., with house abutting spur track on land of N. Y. N. H. & H. Railroad (spur track has been used by the Manhasset Mfg. Co.)

Parcel No. 6—South Meadow Street—Storehouse, one story, frame, 80 x 200 ft., tar and gravel roof, concrete floor, two brick firewall partitions; 27,000 sq. ft. land.

65 Tenement Houses, containing one hundred and thirty-eight tenements, lot of land with each house—to be offered separately.

30 Building Lots—to be offered separately.

2500 Lots of Textile Machinery and Equipment—to be offered separately, in lots to suit purchasers.

The entire property will first be offered in one parcel.

The Plant at Taunton, Mass., To Be Offered

Monday, March 24th, 1924

Tuesday, March 25th, 1924

Commencing at 10 o'clock, A.M., each day, on the premises

Parcel No. 1—Adams Street and Mill River—No. 1 Mill, brick two stories and basement, 338 x 49 ft., with one story brick and frame additions, 245 x 24 ft., 126 x 24 ft., 20 x 21 ft., 121 x 20 ft., 65 x 31 ft., 80 x 46 ft., 60 x 40 ft., 75 x 25 ft., 26 x 22 ft., 40 x 28 ft.; connecting with Mill No. 1 by the additions is No. 2 Mill, brick, three stories and basement, 461 x 73 ft.; storehouses, shed, and office building; about 4 acres of land.

Parcel No. 2—Adams Street—Garage and two Tenement Houses, adjoining mill, with land.

Parcel No. 3—Adams Street—Mechanic's House, with land.

Parcel No. 4—Cohannet Street Storehouse, about 130 x 105 ft., spur track; with land.

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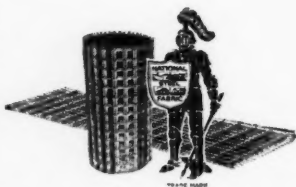
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